r Itliming Journa

No. 1754.—Vol. XXXIX.

LONDON, SATURDAY, APRIL 3, 1869.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

WITH SUPPLEMENT) STAMPED .. . SIXPENCE, UNSTAMPED .. FIVEPENCE

NO. 1, FINCH LANE, CORNHILL.

Mr. CROFTS transacts business in the way of PURCHASE or SALE of every description of stocks, but particularly BRITISH MINES, at net prices. All orders meet with the utmost punctuality, and advice given as to the nature and eligibility of INVESTMENTS when required.

The continued rise in tin is creating an immense demand for shares in good tin mines. The advance of the last month is £17 a ton, and it is still expected to advance. At the GREAT ROYALTON TIN MINE (Roche, Cornwall), in 4096 shares, 4 tons of tin will be raised per month, at a total cost of £30 per ton. Black tin is now upwards of £30, which will give a profit of £50 on every ton raised. The shares at present are 10s., but they will shortly rise to at least double or treble this price. The mine is situated at the head of the celebrated Goss Moors, from which millions worth of tin has been raised. Capt. Parkyn, the agent, writes—"The more I look into this valuable property the better I am pleased with it, and a great deal more than 4 tons of tin a month will be raised in a short time—when the shaft is down. The fact is, these lodes are the best work for tin I ever saw in all my experience, and cannot fail in yielding immense returns and profits. We have five lodes in the sett. The new lode, or what I call the great north lode, which I discovered since I saw you, is 6 feet wide, containing splendid rich tin. It is the best property I ever saw."

MAR. JOHN RUMPUS 44. THREADNEEDLE STREET

Capt. Parkyn's report will be found in its place in this day's Journal.

| Mas FOR SALE the following shares, free of commission:—
| 100 Angio-Brazilian, 9s. | 100 Frontino, 19s. 6d. | 50 Royalton, 27s. 6d. |
| 50 Australian United | 10 Great Vor, £1736, | 25 Gonamena, 19s. 3d. | 75 Gen. Brazilian, 16s. 3d | 10 Great Laxey, £1914, | 25 South Darren, 37s. | 20 South Merllyn (offer South Darren, 28s. | 20 South Darren, 21s4, | 20 South Darren, 21s4, | 20 South Darren, 21s4, | 20 South Darren, 37s. | 20 Sout 55 So. Condurrow, 26s.
20 South Darren, 37s.
20 South Darren, 37s.
50 South Merllyn (offer wanted).
5 Tineroft, £19¼.
10 Taquaril, 12s. 3d.
2 W. Wh. Seton, £206½
50 West Drake Walls. 7s.
3 W. Chiverton, £319½.
50 West Godolphin, 35s.
5 W. Rose Down, £18.
25 Wost Basset, 35s. 6d.
10 Wheal Uny, £3 18s. 9d.
50 Yudanamut., £1 13 9

R. WILLIAM WA
STOCK AND SHAREDEALER,
No. 29, THREADNEEDLE STREET, LONDON, E.C. WARD,

R. THOMAS SPARGO, STOCK AND SHAREDEALER, 224 & 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C.

JOHN RISLEY, (SWORN) STOCK AND SHAREBROKER, 48, THREADNEEDLE STREET, LONDON, E.C. Bankers: London and Westminster, Lothbury. MR. THOMAS THOMPSON, MINING OFFICES, 12, OLD JEWRY CHAMBERS. LONDON, E.C.

M. R. WILLIAM MARLBOROUGH, 1, GREAT ST. HELEN'S, BISHOPSGATE STREET, LONDON, E.C. (Established 14 years).

M. R. EDWARD BREWIS, STOCK AND SHAREDEALER,
No. 24, OLD BROAD STREET, LONDON, E.C., has BUSINESS, for
eash or account, in all the various Mining Securities at best market prices,
SPECIAL BUSINESS to buyers' or sellers' advantage in Chontales, Prince of
wales, West Godolphin, Don Pedro, Anglo-Brazilian, Royalton, Lucy Phillips,
and Taquaril. Bankers: The Alliance Bank, London, E.C.

M R. JAMES HUME, STOCK AND SHAREDEALER,
74, OLD BROAD STREET, LONDON, E.C.
29 Chiverton, £4,
5 Wt. Chiverton, £52½.
50 Prince of Wales, 22s.
10 Great Vor.
50 Chohales, £1½.
50 Chohales, £1½.
50 Chohales, £1½.
50 Chohales, £1½.
50 North Treskerby.
20 New Lovell, £2½.
50 Fortino, 19s.
50 North Treskerby.
21 East Grenville.
50 North Treskerby.
22 New Lovell, £2½.
50 Fortino, 19s.

MR. J. H. COCK, STOCK AND MINING SHAREDEALER,
74, OLD BROAD STREET, LONDON, E.C.
Fifteen years' experience in Cornwall and London.
SPECIAL BUSINESS in Botallack, Bosceau, South Condurrow, North Treskerby, Margaret, Rosewall Hill, North Levant, and New Lovell.
J. H. C. should be consulted on any of the above mines at once.

J. H. Ö. should be consulted on any of the above mines at once.

M. R. T. ROSEWARNE, 81, OLD BROAD STREET, LONDON, E.C.

T. R. has BUSINESS in the following mines, at close market prices:—
Chiverton. East Caradon. West Chiverton.
Devon Consols. Marke Valley. West Chiverton.
West Drake Walls,
East Bassel.* Frince of Wales. Wheal Seton.
Wheal Seton.
Wheal Buller shares should be bought, even at present prices; also, Bedford Consols, Bedford United, Chiverton Moor, East Caradon, and Tincroft.
I can advise the purchase of several mines which are safe for a great rise during the next nine months, and not high-priced shares; the chances are that for £10 investors may realise £100; as, if the machinery on the mines were sold to-morrow, it is worth nearly the money the shares are now selling at. I shall be glad to inform any parties who may call at my office from the hours of 10 to 4 the mines I have selected and their chances of success, as metals are likely to rise higher.

T. R. should be consulted immediately respecting Wheal Grenville, East Grenville, Chontales, and Don Pedro.

Money advanced to any extent on good mining shares.

Office hours Ten to Four. Bankers: Bank of England.

R. E. J. BARTLETT, STOCK AND SHAREDEALER,
No. 30, GREAT ST. HELEN'S, LONDON, E.C., has SPECIAL BUSINESS
2-West Godolphin, Summer Hill, North Pool, South Condurrow, South Merllyn,
ew Lovell, Great South Chiverton, North Levant, Bryn Gwiog, East Rosewarne, East Lovoll, Minera Boundary, Spearne Moor, East Carn Brea, North
Treskerby, Wheal Agar, Caldbeck Fells, and Great North Laxey.
BUYER Of Spearn Moor, West Goldolphin, and Great South Chiverton.
Holders of Stock difficult of sale in the open market may find purchasers on
application to the above.

MR. J. R. PIKE has FOR SALE the undermentioned SHARES

MR. J. R. PIKE has FOR SALE the undermentioned SHARES

50 Chiverton, £3 16s.

50 Chiverton, £3 16s.

50 Conder Skitchen, £4 16s.

50 South Greuville,

50 East Caradon, £7 17 6

50 Swest Frances, £52,

50 East Lovell, £9 2s. 6d.

100 Tamar Valley,

52 Mineral Bottom, £35,

40 North Crofty, £1 1s.

50 New Lovell, £2 1ss.

60 New Lovell, £2 1ss.

61 Under Walls, £1 2s.

62 Cara Brea, £21 10s.

63 Cara Brea, £21 10s.

64 Stray Park.

64 Stray Park.

65 Prince of Wales, £4 2s.

64 New Lovell, £2 1ss.

65 Rest Gaste, £1 1ss.

65 Prince of Wales, £4 2s.

66 Prince of Wales, £4 2s.

66 Prince of Wales, £4 2s.

67 Stray Park.

68 Mineral Ivry, £3 15 66

69 Wheal Ury, £3 17s. 66

69 Wheal Lov, £3 56

69 Wheal Lov, £3 56

69 Budnick Consols, £1.

60 Cara Brea, £21 10s.

60 Stray Park.

61 Stray Park.

61 Stray Park.

62 Stray Park.

63 Stray Park.

64 New Lovell, £2 1ss.

65 Stray Park.

65 Stray Park.

65 Stray Park.

65 Stray Park.

66 Stray Park.

67 Stray Park.

68 66 Male Viv. £3 16s.

68 Onto Lovell, £2 1ss.

69 New Lovell, £2 1ss.

60 Row Lovell, £2 1ss.

60 Row Lovell, £2 1ss.

60 Row Lovell, £2 1ss.

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69 Stray Park.

charged.

All shares for insertion should reach Mr. PIKE'S office on or before Friday.

Mr. PIKE has shares for sale in two tin mines that are already self-supporting, are free of liabilities, and will, no doubt, become good paying properties before many months. Full particulars may be had on application.

Established in Cornwall and London 20 years.

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3, Crown Chambers, Threadneedle-street, London, E.C.

MR, GEORGE BUDGE, STOCK AND SHAREDEALER,
No. 4, ROYAL EXCHANGE BULLDINGS, LONDON, E.C. (Established
20 years), is a SELLER at net prices of:—
50 Prince of Wales, 21s. 2d.; 40 West Basset, 38s. 9s.; 100 Lovell Consols; 2 West
Chiverton, £52; 35 East Grenville, £6 is. 36; 50 West Drake Walls, 5s. 3d.;
70 Tamar Valley, 14s. 3d.; 100 Gwydyr Park, 3s. 6d.; 30 West Prince of Wales,
6s.; 5 Polberrow; 75 North Jane, 14s. 6d.; 69 Drake Walls, 19s. 6d.; 39 North
Treskerby, 17s. 6d.; 39 Cuddra; 10 Maes-y-Safa, £39; 4 Minera; 10 Penhalls,
£54; 30 South Herodsfoot, 27s. 3d.; 35 Pedn-an-drae; 100 Mining Association;
40 Wheai Grenville, 56s.; 70 Great South Chiverton; 50 Chontales, £1 11s. 3d.;
30 Don Pedro, £3 18s. 9d. prem.; 100 General Brazilian, 5s. 9d. prem.; and 300
Taquaril. Taquaril.
SPECIAL BUSINESS in Tin Valley and West Drake Walls.

time on—
ANGLO ARGENTINE.
ANGLO-BRAZILIAN.
CHONTALES. FRONTINO AND BOLIVIA. GENERAL BRAZILIAN. ANGLO-BRAZILIAN.

GENERAL BRAZILIAN.

GENERAL BRAZILIAN.

GENERAL BRAZILIAN.

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DON PEDRO.

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ROSSA GRANDE.

SC. JGRANDE.

ST. JOHN DEL REY.

TAQUARIL.

UNITED MEXICAN.

ORNISH AND FOREIGN MINES—
PETER WATSON'S "WEEKLY MINING CIRCULAR AND SHARE LIST—
SYNOPSIS OF CORNISH AND DEVON MINES," of Fiday, April 2, No. 526, Vol. XL, price 6d. each copy, forwarded on application, contains information on the following mines:—
The Van.
Weal Trelawny.
West Great Work.
South Great Work.
East Lovell.
Wheal Grenville.
Botallack.
East Wheal Seton.

Frontino and Bollyla.

WEST GREAT WATER AND FOREIGN MINES."

Chiverton.
Great Wheal Vor.
Great Work.
Great Work.
East Basset.

East Basset.

on the following mines:

The Van.

Wheal Trelawny.
West Great Work.
South Great Work.
East Wheal Seton.

Botallack.
Frontino and Bolivia.

With Remarks on the Tin Trade, Result of the Banca Sale, Advance in the Bank Rate of Discount, &c.

INVESTMENT OR SPECULATION.—A SELECTED LIST OF RAILWAYS, BANKS, MINES, COLONIAL SECURITIES, FOREIGN GOVERNMENT BONDS, &c., forwarded to bona fide investors on application, in addition to the high rate of interest many of the above are paying, there is now every probability of a great rise in market value.

now every probability of a great rise in market value.

PETER WATSON, STOCK AND SHAREDEALER,
79, OLD BROAD STREET, LONDON
(three doors only from Hercules-passage, entrance to the Stock Exchange).
Twenty-four years' experience.
(Two in Cornwall and Twenty-two in London.)
Bankers: The Alliance Bank, and the Union Bank of London.
References given and required (when necessary) in all the principal towns of the United Kingdom.

THE LONDON DAILY RECORD—STOCK AND SHARE LIST—STOCK EXCHANGE SECURITIES. Published every evening at 5 o'clock. It contains the latest prices of railways, banks, mines, foreign stocks and bonds, financial, insurance, and miscellaneous shares, remarks on the daily rise and fall in prices, with advice as to purchase and sales. Annual subscription, £1 is.; by post, £2 5s.; monthly subscription—by post, 4s.; single copy, 1d.; by post, 2d.

by post, 2d. PETER WATSON, Stock and Sharedealer, 79, Old Broad-street, London.

M R. E D W A R D C O O K E,
STOCK AND MINING SHAREDEALER, 76, OLD BROAD STREET
(and Mining Exchange), LONDON, E.C.
Shares in all the dividend and best progressive British mines also dealt in.
References given.
Price-list sent free on application.
Bankers: Alliance Bank.

W. H. C. U. E. L., No. 42, CORNHILL, LONDON, E.C. \mathbf{M}

MR. J. B. REYNOLDS, STOCK AND SHAREDEALER, ETHELBURGA HOUSE, BISHOPSGATE STREET WITHIN, E.C. Established Eleven Years. Bankers: City Bank, London, E.C.

MR. JOHN MOSS, STOCK AND SHAREDEALER,
ST. MICHAEL'S CHAMBERS, 42, CORNHILL, E.C.
Business as BUYER or SELLER in Frontino, Chontales, Don Pedro, General
Brazilian, and Taquaril Gold shares.
Bankers: City Bank, Finch-lane, E.C.

MR. WILLIAM SEWARD, STOCK AND MINING SHARE BROKER, 19, THROGMORTON STREET, LONDON, E.C. Every description of shares BOUGHT and SOLD at the best market prices.

MATTHEW GREENE, STOCK AND SHAREDEALER,
14, PINNER'S HALL, OLD BROAD STREET, LONDON, E.C.,
BUYS and SELLS Consols, Railway and Mining Shares at the closest
market prices, Daily Price Lists on application.
HORRABRIDGE CONSOLS.—Mr. GREENE recommends immediate applications
for shares in this highly-promising tin mine. A limited number of shares can
be secured on application to Mr. GREENE.
VAN MINE AND DISTRICT.—M. G. Is in a position to give reliable information, having conducted for years past mining operations in this rich lead-bearing
county.

tion, having conducted for years past mining operations it was a teacher county.

WHEAL ARGENT SILVER AND COPPER MINE, in \$400 shares.—M. G. has FOR SALE a limited number of shares at 10s, per share. This mine has made a profit of 50 per cent, on the last eight months' working, and during the last month has wonderfully improved. Capt. Gifford, the manager of Prince of Wales, in his report of the latter mine (see *Mining Journal* of the 13th inst., page 186) says—"I have, in company with my son, been over the south part of your sett on the silver lode, from which at the neighbouring mine, South Prince of Wales (Wheal Argent), was raised and sold during the last three months \$400 worth of silver, at a cost not exceeding \$50. An early application should be made, as this is the first and only opportunity the public will have of securing an interest in this fine property. this is the first and only opportunity the public with a life of the first in this fine property.

TAMAR VALLEY SILVER-LEAD and NEW CLIFFORD COPPER MINES are both looking well. See reports in this day's Journal.

Established Twelve Years.—Twenty-four Years' Experience

Established Twelve Years.—Twenty-four Years' Experience.

MR, F. W. MANSELL, 44, THREADNEEDLE STREET, LONDON, has the following SHARES FOR SALE, for cash or account, at net prices:—

25 Chiverton, £374.

55 New Lovell, £2 118 34

10 East Grenville, £6!4

10 Task Walls, 198.

10 East Grandon, £8 1 3

10 East Lovell, £9!4.

100 Redmoor, 5s.

100 Great W. Vor, £16!4

55 No. Condurrow, 26s.

106 Laxey, £19!4 (ex 150 Tamar Valley, 12s. 6d (10s. paid).

100 Redmoor, 5s.

100 Great W. Vor, £16!4

50 So. Condurrow, 26s.

106 Laxey, £19!4 (ex 150 Tamar Valley, 12s. 6d (10s. paid).

100 Anglo-Argent, 20s 6

SOUTH CONDURROW.—No time should be lost in the purchase of these shares.

Every information may be had on application.

Bankers: London Joint Stock Bank.

INVESTMENT FOR CAPITAL.

MR. F. W. MANSELL, in February, 1868, under this heading, recommended the under-mentioned mines for immediate purchase:—
Wheal Emily Henrictta, at £10, present price £20, have been £40.
Wheal Grenville, at 50s., present price 50s., baye been 70s.
Again in October, 1868, the following were strongly recommended for immediate in the commendation of the commendation o

Again in October, 1868, the following were strongly recommended for immediate purchase:

East Caradon, at £3½, present price £8, have been £10.

North Treskerby, at 7a. 6d., present price 17a. 6d., have been £9a.

Great Retallack, at £2½, present price £2½, have been £3½.

There is no class of investment pays so well as British mines if judiclously selected To command this, competent practical agents are retained by Mr. F.

W. MANSEL to specially report upon all promising mineral properties in the United Kingdom.

gressive, which are certain to take a prominent position in the market during the present year.

Daily Price List free.

44, Threadneedle-steet, London.

TNVESTMENT, LOAN, AND BANK AGENCY.
Established 1839.
Every information afforded to Capitallists, Trustees, and others who seek
Investments of a strictly eligible and safe character.
Investments may be effected in Foreign Stocks, Colonial Bonds, Railway,
Mine, and other Shares, subject to quarterly, half-yearly, or annual payments,
upon advantageous terms.

Mine, and other shares, subject to quarterly, hair-yearly, or annual payments, appon advantageous terms.

LOANS granted, for one year or any shorter period, on Stocks and Shares having a market value.

Five per cent. interest allowed upon DEPOSITS of all amounts.

Money and Finance Agency Business generally undertaken.

RICHARD TAYLOR AND COMPANY.

No. 12, Clement's-lane, Lombard-street, London, E.C.

OLD AND SILVER MINING SHARES.—
RICHARD TAYLOR AND COMPANY are DEALERS in the FOLLOWING SHARES at close market prices, free of commission, either for cash or

ROSSA GRANDE.

MR. T. P. THOMAS, MINING AGENT AND SHAREDEALER, 77, OLD BROAD STREET, LONDON.

Lead mining in the Counties of Cardigan and Montgomery has lately been very successful, and likely to continue so.

T. P. THOMAS, having a thorough knowledge of these districts, is at all times prepared to make SELECTIONS for investors.

WEST CHIVERTON, WHEAL CHIVERTON, MINERAL BOTTOM, and other Mines in the Chiverton District.—Investors and speculators can have reliable information as to the present position and future prospects of the above-named mines on application to T. P. THOMAS.

M R. C H A R L E S T H O M A S, MINING AGENT, GENERAL SHARFDEALER, AND AUCTIONEER, 3, GREAT ST. HELEN'S, LONDON, E.C.

Third Edition, price One Shilling; post-free, fourteen stamps, MINING FIELDS OF THE WEST:

A PRACTICAL EXPOSITION OF THE WEST:

PRINCIPAL MINES and MINING DISTRICTS OF CORNWALL and DEVON.

Published by CHARLES THOMAS,

At No. 3, Great St. Helen's, Loudon, E.C.

М в. w. н. L A N Y (Late of Kennall Gunpowder Company)
GUNPOWDER MERCHANT, TRURO.

BARTLETT AND CHAPMAN, STOCK AND
TRANSACTS BUSINESS in every description of Stocks and Shares, at the
closest market prices, free of commission, and can well advise as to the sale or
purchase of Railways, Mines, Banks, &c.
And are in a position to give special and trustworthy information as to the
present condition and future prospects of Lovell Consols, Tin Valley, Wheal
Jane, West Chiverton, North Jane, Great South Chiverton, and the Providence
Mines,
Application for Tin Valley are advantaged.

Mines.
Application for Tin Valley shares should be made without delay. We have a limited number for disposal at 20s, cach. A substantial and speedy rise in the price of these shares may be confidently anticipated.
Baukers: London and Westminster, and Alliance.
Offices, No. 2, Bucklersbury.

BARTLETT AND CHAPMAN'S "INVESTMENT CIRCULAR AND FINANCIAL RECORD"

(Published on the first Wednesday in each month)

Comprises—A Comprehensive Review of the Stock, Share, and Money Markets; an Enumeration and Comparison of the Whole Circle of Investments; and Valuable Suggestions for Purchase or Sale.

2, Bucklersbury, London. E.C.

MR. HENRY MANSELL, 44, THREADNEEDLE STREET,
LONDON.
Mr. H. M. can recommend three mines for an immediate advance in price.
Thirteen Years' Experience,
Bankers: London Joint-Stock Bank.
References exchanged.

MR. C. A. POWELL, BRITISH AND FOREIGN STOCK AND SHAREDEALER, No. 1, PINNER'S COURT, OLD BROAD STREET, Business transacted in every description of negociable securities at market prices.

prices.
SPECIAL BUSINESS in Frontino, Chontales, Don Pedro, St. John del Rey,
Pestarona, General Brazilian, Taquarii, Wheal Uny, Penhalis, Prince of Wales,
Brynpostig, Mid-Wales, and North Treskerby.
WANTED an offer for 50 or 100 St. Just Amaigamated.
Business transacted at net prices. References exchanged.
April 2, 1869. Baukers: City Bank, Finch-lane.

April 2, 1869. Bankers: City Bank, Finch-lane.

FRONTINO AND BOLIVIA (SOUTH AMERICAN) GOLD MINING COMPANY (LIMITED).

Mr. Powell has pleasure in calling attention to the very much improved position of this company. Next to the highly successful Don Pedro, whose profits exceed £50,000 a-year, or over 100 per cent. upon the called-up capital. It would appear that the Frontino and Bolivia properties are now the only other gold mines, except Port Phillip, actually realising a progressive monthly profit, and this notwithistanding a temporary drawback of a scarcity of water at the mines during the Christmas holidays. It is confidently anticipated that next month's advices will show even more successful results. The market for these shares is extremely firm, closing buyers at 18s. 6d. to 19s., at which price, even the present rate of monthly profits is equal to 10 per cent. It must be borne in mind that a material advantage with this company over others before the public is that the liability on uncalled capital is only 2s. 6d. per share, which a continuance of the present favourable returns from the mines will render quite unnecessary, except as a means nitimately of working the property on a much more extensive scale by the erection of additional mills. Mr. Powell strongly recommends this enterprise to the attention of the mining public.

M. G. D. SANDY, STOCK AND SHAREDEALER,
48, THREADNEEDLE STREET, LONDON, E.C.
Daily Price List on application post free. References exchanged.

MR. H. WADDINGTON, SHAREDEALER,
48, THREADNEEDLE STREET, LONDON.

NTENDING INVESTORS.—The "FINANCIAL GAZETTE," published by Mr. Y. CHRISTIAN, should be consulted with a VIEW to the SAFE EMPLOYMENT of CAPITAL. It contains Original Articles, a Review of the Money Markets, and a selection of investments paying 10 to 17 per cent., and such information as is necessary to guide intending investors.

6, Bond-court, Mansion House, London, E.C.

Bankers: Bank of England.

WALTER TREGELLAS, 122, BISHOPSGATE STREET
WITHIN, LONDON, E.C., DEALS in all STOCKS AND SHARES,
bither for cash or the fortnightly settlement.
SPECIAL BUSINESS in the following gold mines:—
Don Pedro.
Rossa Grande.
General Brazilian.
Ding Dong.
BUYER of 10 Ding Dong shares.
Buyers: The Alliance Bank.

BUYERS AND SELLERS OF BRYNPOSTIC SHARES

Should apply to—
G. R. ROSS AND CO., 26. NICHOLAS LANE, LOMBARD STREET. CHONTALES GOLD COMPANY.—FULL PARTICULARS of the DIFFERENT CLASSES of SHARES can be obtained on application to Mr. J. H. MURCHISON, No. 8, Austinfriars, E.C.

ROYALTON TIN MINE,—TWENTY-FIVE SHARES FOR Apply at the Open Stock Exchange (Limited), 5, Lothbury, E.C.

M R. J. N. MAUGHAN, STOCK AND SHAREBROKER (Member of the Stock Exchange), No. 2, COLLINGWOOD STREET, NEWCASTLE-ON-TYNE, Baukers: Messrs. Lambton and Co.

A SSAYS AND ANALYSIS.—Mr. JOSEPH GREEN, for the past eighteen years professional Assayer to the Chester Goldsmiths' Company, UNDERTAKES the ASSAYING and ANALYSIS of EVERY DESCRIPTION of MINERAL.

ASSAY OFFICE, CHESTER.

T H O M A S T H O M A S,
COPPER ORE WHARVES, SWANSEA.

MESSES. A. STUART AND CO., STOCK AND SHAREDEALERS, 93, BISHOPSGATE STREET WITHIN, R.C. Are in a favourable position to deal in all foreign gold and silver mining companies. In Cornish and Devon tin mines we think everything is very favourable for increased dividends, and a great rise in price of some shares. Weahall be happy to forward on an after April 20 our circular of "Profitable Facts," post free.

Oniginal Connespondence.

COAL-CUTTING MACHINERY.

-The article in the Mining Journal of March 27 on Coal-Cutting Machinery, after describing the more prominent requirements of tha

Machinery, after describing the more prominent requirements of that class of machinery, goes on to state as follows:—

"With these facts in view several machines have been brought under public notice during the last seven or eight years, but most of them for all practical purposes were short lived, the greater part having scarcely survived the first stage of the Patent Office. Two or three, however, have managed to live, and added by stimulants, in the shape of constant additions and improvements, are now doing good work."

Your correspondent has omitted to give the names and places where the two or three are doing "good work." I was not aware of the

Your correspondent has omitted to give the names and places where the two or three are doing "good work." I was not aware of the fact mentioned, and I have yet grave doubts whether there is a single coal-cutting machine doing regular work, excepting those made by ourselves. If I am mistaken your correspondent can easily set me right, and shall feel obliged to him for the information.

In respect to the two machines at West Ardsley, he is specific. He had the opportunity of seeing them do the work which he particularises, but I will venture to say that in no other case had he the means of verifying the statements made to him. Sanguing inventors are al.

verifying the statements made to him. Sanguine inventors are always going to do something wonderful, but they often miscarry, and in no branch of mechanism have the lofty promises been more nu-

merous, nor the failures more conspicuous.

The improvements (Firth's patents) incorporated upon the original invention for cutting coal by compressed air have enabled us for the last six months to work daily with the utmost regularity—two mainst six months to work daily with the utmost regularity—two machines cutting about 1000 tons per week, and this is by no means the limit of their capacity. There have been no failures of duty in either the machines or the motive-power, and allowing for the unfavourable conditions of working machinery in comparative darkness, at a distance of 14 mile from the shaft, they work as perfectly as any machinery in the most favourable situations. The machines are portable, and easily managed; the men make good wages. The cutting of the coal is admirably executed, and its selling quality is improved. The mine is better ventilated than it ever was before, and proved. The mine is better ventilated than it ever was before, and is not only more comfortable to the workmen, but there is diminished liability to accidents. There is a great saving in timber and other stores, and there are some other and not unimportant advantages, which need not be referred to here.

These points are now settled, and in accomplishing them we have the satisfaction of feeling that we have not encroached upon the rights or taken advantage of the labours of any other person. The

rights, or taken advantage of the labours, of any other person. The commercial results are eminently satisfactory to the proprietors of the colliery, but we believe that the greatest boon of all is to the working colliers.—Leeds, March 30.

WILLIAM FIRTH.

ON ECONOMY IN THE SMELTING OF IRON IN SOUTH STAFFORDSHIRE-No. III.

In our second article we rapidly glanced at the progressive history In our second article we rapidly gianced at the progressive history of the iron trade, after which we gave a few particulars as to the resources of the ironstone in the Black Country coal field. The present article will deal more particularly with the enquiry into the resources of the coals existing in the same "mineral cellars." George Stephenson, when reflecting upon the great importance of this fuel as constituting one of the chief bulwarks of Great Britain's strength, said—
"The Lord Chancellor now sits upon a bag of wool, but wool has long cased by he embleantied of the study commodity of England: he ceased to be emblematical of the staple commodity of England: he ought to sit upon a bag of coals." Black Country folk, however, need no quotations to convince them of the value of "black diamonds," need no quotations to convince them of the value of "black diamonds," even when existing in such prodigious quantities, but, at times, they do need reminding of the fact that Nature's provision is not inexhaustible, and that these "diamonds" are subject to the law of "scarcity increases value." This article has no special need to go into the question of competition as affecting the interests of particular industries. South Staffordshire has for some time been battling under this banner, and is now in front rank, doing her best to hold her position amid the smoke, din, and bustle of competitive engagements. Our excuse for meddling with this fierce combat is that being an outsider, quietly watching the movements, one can often direct to advantage, though not in the actual engagement: in fact, it is a bit advantage, though not in the actual engagement; in fact, it is a pity t some of our leading combatants do not more frequently come from the thick of battle and do more in the reconnoitering line. If this were done, we feel sure great improvements in attack and de-fence would be effected. South Staffordshire will, for many long years, be in a position to supply her demands for coal under certain conditions, to be pointed out. Dividing, as before, the coal basin conditions, to be pointed out. Dividing, as before, the coal basin into sections, we first glance at the southern section, with Dudley as the centre. It is well known that the meridian of coal resources is past. Lord Ward, however, may still pride himself on well-stored "cellars" of other commodities than valuable wines. He can, as yet, past. Lord Ward, however, may still pride himself on well-stored "cellars" of other commodities than valuable wines. He can, as yet, bid defiance to encroaching scarcity, for of late a large extent of property in the neighbourhood of Himley has been proved to contain the well known "Thick coal;" and by virtue of the excellent management of the working and winning on the most economical principles, one acre will now mean something more than an acre did years ago, so far as produce is concerned. It is believed by many eminent geologists, Profs. Jukes and Beckett included, that the land now known as Penn Common and Baggaridge Wood, which adjoins the Himley Estate, will contain the same coals at a reasonable depth. Doubtless his lordship, when driven by scarcity of fuel, will turn his attention to this part of the coal field, and put all theory at rest by practical proof. Besides Eord Ward's possessions in this section, many half-worked-out collieries exist, which contain ("more's the pity") more water than mineral. We might easily call attention to many hundreds of acres of "broken mining property," which, however, contain very significant resources of Thick, Heathen, and other coals, but which are completely inundated by water. We may reasonably state that some of these collieries would give a good supply of coals for upwards of twenty years. The works in the neighbourhood, which should be supplied by this "drowned" fuel, are being carried on with supplies from other parts of the coal field. In reference to this section, we would recommend the parties concerned to at once do something towards amalgamation, by which the necessary arrangements can be matured to drain the said property.

While on the subject of drainage, I would here endorse the sentiments expressed in your leading article, with reference to the drainage of the "Tipton pound." Some persons of ability should be commissioned to make minute enquiries as to the quantity of water to be pumped, and the expenses entailed, &c. If the many colliery owners do

themselves together with harmony of feeling to accomplish difficul-ties affecting each in common, they will certainly be guilty of striking a death blow to the continued prosperity of this part of the county. We must look to clearing out of "broken mines" for a continuance of supply, as well as to economy in its application to manufacturing purposes for the extension of successful speculation in the coal and iron trades. We shall refer to the probability of coal being found more southward when we speak of the geological evidence in favour of an extension of coal fields.

Secondly, we can only glance at the middle section of coal basin, including the Bilston, Wednesbury, Willenhall, and Priestfield neighbourhoods. This section shows more evident signs of decay and age than the others. Here and there about Bilston and Priestfield may Some are getting the coals from under furnaces which have become extinct for want of supply. Other pits are sending forth coals which 20 years ago were condemned as being totally unit for smelling pur-20 years ago were condemned as being totally unfit for smelting purposes. Such are now in great demand, at prices from 7s. to 8s. per ton. When the Thick coal was being worked at its maximum for smelting and manufacturing purposes, the New Mine and Fire Clay were looked upon as inferior rubbish. Now these coals in this neighbourhood are in great request, and makers of iron would be only too glad to give such prices as would 15 years ago have been considered the height of extravagance. These coals are becoming scarce, and may almost be counted acre by acre. But it is on this important subject that we can give some little news of encouragement. In this middle section there are many hundred acres of property, containing coals from a vard in thickness to 4 ft., which are perty, containing coals from a yard in thickness to 4 ft., which are to this day condemned by furnace managers and some iron makers

as being too poor to be used for smelting. The consequence is that many millions of tons of coal are excluded from the calculation of as being too poor to be used for smelting. The consequence is that many millions of tons of coal are excluded from the calculation of the resources of the various collieries. These very coals, known as Mealey Grey, Yard, and Four-feet are in a few exceptional cases used. With the immense improvements in iron manufacture since the days of our forefathers we do believe that these coals may at least be used in some proportion with others for smelting and manufacturing purposes. If our furnace managers would overcome blind prejudice by intelligent application, we should find that such coals would be brought within the pale of recognition, and would swell the period of the Black Country's prosperity. I have analyses of these coals, which bear favourable comparison with the now used New Mine coal and Fire Clay. It would be a very trivial matter pecuniarily, and a very important matter individually and nationally, if our iron firms in possession of these coals would have accurate analyses made and practical proof carried out, when they would need not be influenced by opinions founded only on prejudice and tradition. I know of two collieries which would have their supply augmented by 15 years if such coals were proved to be of sufficient quality to mix with better. Again, such coals make a heavy proportion of slack, which is of little value, and is often left in the mines, or heaped in a mound. This slack contains pieces of coal in fair proportion, which would not go through a screen with bars 1 in. apart. Supposing coal down to this size can be profitably used in the furnace, what an enhancement in the value of tender coals, which in numerous instances are rendered of no value, solely on the account of making two-thirds slack. of making two-thirds slack.

Here, again, then would coals be mixed which are now lying con-demned. It is our opinion that such coals from the size of an inch can be used, and will answer well in our blast-furnaces under certain

conditions. However, if this article only attracts the attention of our iron kings to the subject it will, doubtiess, lead to enquiry and trial. Space will not allow of a completion of this part of our subject. Space will not allow of a completion of this part of our subject. The remaining section, general remarks, and the geological evidence in favour of coal existing outside present proved limits, must be held over till our next. With Adam Smith, I would say—"The progressive state is in reality the cheerful and the hearty state to all the different orders of society, the stationary is dull, the declining melancholy."—Willenhall, March 29.

T. PARTON, F.G.S.

ON THE CAUSES OF COLLIERY ACCIDENTS.

SIR,—Referring again to this subject, I would suggest that a well-digested plan of inspection by active Government officers, and adapted to the requirements of each district, is what we must look to in order to the requirements of each district, is what we must look to in order to prevent a recurrence of distressing accidents. I refer more particularly to those accidents which may be termed preventable under a rigid system of supervision. Ido not place the late accident at the Earl of Dudley's colliery, near Brierly Hill, under this class, as the presence of a large accumulation of water was not apprehended in the direction where the 13 men and boys were employed, and no boreholes were kept in advance of the working places to guard against the danger. the danger.
Another accident is reported from Monmouthshire, at Nant-y-Gl

Iron Works, where nine men have been severely burnt by explosion of fire-damp, some of them fatally. This accident is believed to have occurred by a door being left open, causing an accumulation of in-flammable gas, which was probably fired by a candle, or may have been fired by a shot, under similar circumstances to the accidents which occurred so recently at three different collieries in Lancashire, and elsewhere; without more detailed information I will not make further allusion to this needlent. The present system of Govern. further allusion to this accident. The present system of Government inspection having proved unsatisfactory, as far as the saving of human life is concerned, taking a general view of the question in England, Wales, and Scotland, it is suggested that if the number of Inspectors be increased, so as to enable each of them to make periodical inspections of each colliery in his district, and ascertain how far they are conducted on principles of safety—that is, with suffifar they are conducted on principles of safety—that is, with sufficient currents of air, freedom from explosive gas, the proper use of lights, gunpowder prohibited where safety-lamps are used, and a plain code of rules in force for the guidance of the workmen; in other words, the Inspector should have a general idea of the safety, or otherwise, of each colliery in his district. The benefit to be derived from a national system of inspection of this kind would be so marked, and so plain, as to amply repay the increase in the number of officers, it remains for the British Parliament to decide whether such a system will be carried out, or any other improved one, which by taking cognizance of the entire extraction of coal, so far as practicable, such as is done in foreign countries, and suggesting modern ticable, such as is done in foreign countries, and suggesting modern methods and scientific improvements applicable to the working of coal mines, would, without doubt, be of great national advantage. The district of South Wales and Monmouthshire is, probably, large enough for two or three Inspectors, and in Lancashire, where many of the men in charge of collieries are uneducated in their profession, an increase in the number of Government officers would be attended with great advantage. Anyone who has made himself acquainted with the recentenquiries into the late accidents in Lancashire will perceive that there was no organised system of inspection to prevent those explosions and the destruction to human life. The overlookers were ignorant of modern methods of ventilation, and the system of management was defective, both in principle and in discipline. I do not see the utility of waiting till the mischief is done, or after the building is destroyed by fire, to say that such and such measures might have been taken to prevent its occurrence, but to be up and doing, in order to avert those calamities, as far as human forethought and skill can devise.

LEAD MINING IN FLINTSHIRE.

SIR,—I observe in last week's Journal a letter under the above heading, signed "A Flintshire Miner:" its tone is so dogmatic, its state ing, signed "A Flintshire Miner:" its tone is so dogmatic, its statements so reckless, and its deductions so illogical, that I am tempted to say a few words in reply to the writer. He asks the question, as I take it—Will old and abandoned mines pay for re-opening? and his answer is—No. If lead mining in Flintshire is to pay at all, it must, according to your correspondent, be by making new discoveries "above the water-line." He says—"For let it be remembered that nearly all the celebrated mines of the county have yielded the bulk of their profits from above the water-line, without the intervention of pumping-machinery." This statement is simply and absolutely untrue. Were there no pumping-engines, I ask, on Cat-hole, Pant-y-Mwyn, Llyn-y-Pandu, Hendre, Rhosesmor, Milwr, Holwry, Trelogan, and Talargoch? Now, it is a fact that the greatest profits made at the above mines were secured after the mines were sunk below the "water-line," and powerful pumping-engines were employed. It has "water-line," and powerful pumping-engines were employed. It has long been a proverb among Flintshire miners that "where there is no water there is little lead." Indeed, this is almost an axiom among metallic miners. metallic miners everywhere.

-" Lead mining never will pay so long as ld mines." Now, this is absurd, because Your correspondent says—"Lead mining never will pay so long as operations are confined to old mines." Now, this is absurd, because "operations in old mines" have paid, and are now paying. Take Talargoch, Holywell Level, Minera, and others that might be named, which have been abandoned and re-opened. Your correspondent further says—I would recommend, therefore, that "old mines" should be comparatively explayed for the future, and that miners of the

ther says—I would recommend, therefore, that "old mines" should be comparatively eschewed for the future, and that miners of the present day should, like their ancestors, boldly go into fresh tracts of country to discover lodes for themselves," &c.

Now, Sir, what has been the experience of previous pioneers and discoverers of lead mines? So far as I know, in many cases, just this—a great amount of labour and capital has been expended in explorations, sinking shafts, driving levels, &c.; and when the ground has been proved either to be useless or valuable, as the case may be expended. been proved either to be useless or valuable, as the case may be, in eight cases out of ten their capital and patience have alike been exhausted, and others entering upon their successful labours reap the reward due to others' toil. I venture to affirm that there have been more disappointments and loss to original explorers than to those who work abandoned mines. I am free to admit that many companies formed for the "resuscitation of abandoned concerns" have ended in failure, but I assert that in nine cases out of ten the default has not been because the mines have been exhausted; we know to the contrary; but the failure has arisen through insufficient capital, reckless management, and prodigal expenditure. To these causes, and to these alone, are to be attributed the majority of failures in the re-opening of old mines. Your correspondent assigns another

cause for these failures :- "The fact being patent in too many cases cause for these failures:—"The fact being patent in too many cases that the mine had been exhausted of all profit-giving ore." How is this proved, and where? I defy him to give two cases in point to prove this reckless statement. The fact is, very few old mines, if any, re-opened by new companies, have been sunk deeper than when abandoned, and others have not even been cleared to the bottom of the old workings. Where this has been done, the result has been almost always a success. There may be, and, doubtless, have been, various causes for the suspension of many a rich old mine—e.g., at the time of the stoppage of the Cornish Company's mines, near Mold, lead was selling at from 7l. to 9l. per ton; the mines were expensively worked; more powerful pumping-machinery was required, the purchase of selling at from 7l. to 9l. per ton; the mines were expensively worked; more powerful pumping-machinery was required, the purchase of which the profits, at the time, would not cover, and the proprietors declined to find fresh capital. The failure of the Mold Bank about the same time caused the closing of several other valuable mining properties. I say, without fear of successful contradiction, that your correspondent cannot point out half-a-dozen abandoned mines in Flintshire of "historic repute," that will not amply pay for re-opening, as the mines in Flintshire may be said to be, almost without exception, shallow mines, especially when compared with those of Cornwall and Devon. Indeed, there is scarcely a mine in Flintshire more than 100 fathoms deep, whereas in the counties named 250 fathoms is considered comparatively shallow.

I profess to have some knowledge of Flintshire mines, and belience

considered comparatively snahow.

I profess to have some knowledge of Flintshire mines, and believed in the profess of the same is no field offering greater inducements to bona fide capitals. there is no field offering greater inducements to bona fide capitals.

than some of the abandoned mines of this county. The conditions of success are—1, capital; 2, careful and intelligent management; 3, coupled with a rigid and wise economy. My advice is, improve what has already been discovered, and let those who like it discover for themselves new lodes, &c. —— LUTHER MARTIN.

MINING, AND THE PRESENT POSITION OF THE METAL MARKET-No. VI.

SIR,-The improvement in the metal and mining share markets is of such a nature as to call for particular notice, and I desire your permission to draw the attention of your readers to the peculiarities of the occasion.

It is always pleasant to those interested in any one department of It is always pleasant to those interested in any one department or mining to perceive those engaged in any other mining enterprise prosperous, for the extensive use of any one metal must bring out every other. When iron is in demand (say) for ships it is certain that copper, tin, and lead will also be required. A cargo of rails cannot be sent to Russia or the United States without the certainty being felt that copper and tin for various parts of locomotives, and for innumerable and necessary things connected with stations, are sure to be wanting. The tin miner more than any other looks upon an extensive purchase of other metals with encouragement, because an extensive purchase of other metals with encouragement, because he knows that it more than any other is bought in as an auxiliary. This is one reason why the price of the metal frequently runs up so high from a depressed condition. It is now well known that Russia is bent upon accomplishing her gigantic railway projects; and that loans to the extent of 25,000,000% to 30,000,000% sterling will be required. Much of this money will be spent in procuring English rails, tools, locomotives, tin and copper vessels, sconces, lanterns, and cooking apparatus for the workmen, as Russia must come to Western Europe for these metal manufactures, and to England more especially. The United States of North America has also large projects for new

The United States of North America has also large projects for nev railway communications. The development of agriculture in the Far West renders it necessary. The marvellous mineral discoveries in California, Collorado, Nevada, and along the western slopes of the whole range of the Rockey Mountains and the Cordilleras renders more railway communication a sine qua non to the prosperity of that remarkable country. The commerce between the castern States and the wastern between India China and the Eastern Achinelago and

more railway communication a sine qua non to the prosperity of that remarkable country. The commerce between the eastern States and the western, between India, China, and the Eastern Achipelago and the Union, and then again between its eastern sea board, and more particularly Europe, compel the country which is becoming the very centre of the world's traffic to cry out for rails, more rails. For this reason the Americans are coming into our market, and will, like the Russians, raise the drooping rates of iron and copper, sustain the firmness of lead, and cause tin to rise with still more buoyancy. If Straits and Banca are bought in the Dutch market, nevertheless a certain proportion of English tin will be rendered necessary by the fact of that demand. Thus, from whatever point of view we regard it, the price of tin is likely to maintain a high level, and that very much, in all probability, beyond what we have reached. The advance in the value of this metal must affect the interests of Cornwall in a very favourable manner; so that, instead of distress and voluntary exile being the account of things there, we shall hear of the adventurous and hardy race of our South-Western county being in constant employment, and well remunerated for their labour. The advance in tin has been so rapid and extraordinary that, notwithadvance in tin has been so rapid and extraordinary that, notwith-standing this particular market is liable to a great range of fluctua-tions, there can be no doubt from the circumstances here related, as tions, there can be no doubt from the circumstances here related, as well as others, that a descent to the depressed level of 1868-7, and part of 1868, cannot be seen for a long time to come. This is, therefore, a suitable period in which to point out what would permanently benefit mining in Cornwall and Devon. There is one thing in connection with this which I will now suggest; hereafter, with your permission, I will state others.

The working of the mines should be undertaken and conducted on acknowledged scientific principles. Shafts should be sunk and levels

acknowledged scientific principles. Shafts should be sunk and levels opened, and, what hitherto does not seem to have been thought of, these shafts and levels should be left in a perfect state, without removing anything from them when the working, whether by an indi-

these shafts and levels should be left in a perfect state, without removing anything from them when the working, whether by an individual or a company, is given up.

It ought to be a stipulation in every lease that no timber from shafts or levels should be withdrawn on the abandonment by the lessee. The fixed furniture of the mine, so to call it, should not on abandonment by the possessors of the take become the property of the lord; it should be regarded, once attached to the premises, pro bono publice. There is nothing so out of the way, as at first sight it might seem to holders. The timber and other articles sold by tenants on quiting bring little advantage; the loss to the community and the mining interest is heavy. When the timber is taken from the shafts and levels they, of course, collapse, and a future tenant has all the trouble and expense over again, enhancing in an unnatural way, and, therefore, injuriously, the cost of metals to the purchaser, and lessening at the same time, the profit of the raisers; in fact, if it were the custom to leave the shafts, levels, sinks, rises, stopes, ends, &c., in the condition they were when used for working, it would be regarded as much a matter of course as even paying the tribute to the lord, and all would in turn feel the benefit and utility of it. If such had been the case heretofore, there can be no doubt in the mind of anyone who knows Cornwall that ore ground now unworked would be opened up, that in these palmy days of prices disused mines, so circumstanced, would quickly be resumed, or find other more spirited occupants.

It is of the utmost importance to the working of mines that the shafts sunk and the levels driven should be made of such a size as will admit of efficient working, so that the miners may not be cramped for want of space, nor suffer in their general health and respiratory

for want of space, nor suffer in their general health and respiratory organs for want of air, and that the stuff may be removed without the obstructions which often arise, especially in soft country, from

When new tenants entered upon a mine which had been so reguwhen new tenants extered upon a limit which had been so regulated they could find fair scope, whereas now the cost of re-opening closed mines, caused by the falling in of the sides from the withdrawal of timber, &c., is seriously deterrent to the enterprise, and is a great impediment to the renewal of work which, if proper care had a great impediment to the renewal of work which, if proper care had

a great impediment to the renewal of work which, if proper care had been taken of the ground, and proper operations had been originally conducted, might yield great advantage to the country.

I trust, Sir, that you will yourself, on some early occasion, when other pressing topics of the day allow, give a leader to these subjects. Indeed, for the Mining Journal it is a pressing subject; your columns are always open to statements which point the road to improvements in our mines, and the preparation of our metals. I feel confident Sir that you would render a great service, not only to confident, Sir, that you would render a great service, not only to Cornwall and Devon, to Cardiganshire, Flint, Mona, and Ireland, but to those parts of Great Britain where from the nature of the produce taken up other usages predominate than those established in mines of copper, tin, and lead.

In confirmation of some of the remarks which I have made, I will resist out to your readers how remarkable the advance which has chas-

point out to your readers how remarkable the advance which has chas-

racterised the market for tin, and the fluctuations in the value of that metal. Early in 1868 the market value was as low as 92%, since the time, barely 12 months, it has advanced at the rate of 40 per cent.

In confirmation of some of my remarks, I may observe that copper is not likely to rise, and maintain a rise. Tin is only produced in a few countries in the world, whereas copper abounds in both hemispheres, in almost every longitude, latitude, and climate. Accordmispheres, in almost every longitude, latitude, and climate. Accordingly for nearly 50 years, beginning with the century, the standard went gradually, but surely, down. In 1805 it was in Cornwall 1621. (fractions omitted); in 1848 it was down to 981. The standard in Swansea in the year 1819 was 1341., in 1845 it was but 871. Within a few days Chili bar has been done at 701. 10s., and the announcements are made of heavy freights from that country.

I wish, Sir, that the doctrine was more impressed upon the public mind that countries advance in wealth as their mining enterpises and resources enlarge. This is exemplified in the case of Great Britain, Belgium, and lately by France and North America; whereas countries which have fallen off in mineral resources, or have ceased to make them available, as Spain, Portugal, Poland, Hungary, &c., have declined in social comfort and national importance.

Gresham House, March 31.

THOMAS SPARGO.

Gresham House, March 31. -THOMAS SPARGO.

THE PRICES OF METALS.

SIR.—The result of the low price of copper for so long a period is the winding-up of several of the largest mines, not only in the island afficient, but also in Chili, as well as the almost suspension of the runa Burra and other mines in Australia, some extensive mines in Canada, and several copper works in Lake Superior, in the United States. A drop of 50 or 70 per cent, in tin and copper not only put stop to several given it cannot be several copper mines throughout the world but a stop to several gigantic copper mines throughout the world, but, for a time, probably some years to come, the raising of immense quantities of tin also, not only in the islands of Banca and Billiton, but in some of our East India settlements; and had not the oldest and greatest copper mines formerly in Cornwall become extensive tin mines in deeper levels, after yielding immense returns of copper to mines in deeper levels, after yielding immense returns of copper to the depth of some two or more hundred fathoms, the present price of tin would doubtless be all but fabulous, as the consumption of tin is largely on the increase. The quality of copper invariably decreases with the quantity, and had the percentage of this mineral not fallen off, as it doubtless does in depth, in every country where the article is found, many of the greatest mines would still be found to pay; but when it costs 30s. to produce 20s. value in metal, the object of commerce is at an end; thus far in all mining matters. With all the depression in trade during the last few years, lead has maintained not only its price, but an increase. Formerly lead ore found in the limestone formation, averaging from 75 to 80 per cent. sold at from not only its price, but an increase. Formerly lead ore found in the limestone formation, averaging from 75 to 80 per cent., sold at from 10t. to 12t, per ton; the price at present is rather higher. To embark in old and exhausted mines is very like a young man marrying his grandmother. A great cry has been raised of late by persons continually saying I have lost money in mines. It is true, no doubt, to a great extent, but the money lost in re-opening one old mine would discover and prove 20 new mines, on the average. A. BENNETT. March 29

THE FRENCH WORKMEN IN CORNWALL,

SIR,—I hope that some one more learned than I am in granite matters may think it worth while to say something in reply to "Clerk of the Works," in the *Builder* of the 20th. I do not suppose there can be any doubt about the quantity or quality of the Cornish granite, or the skill and powers of Cornish quarrymen, or the capital and energy of quarry owners and contractors for granite work. Are there any Unions among Cornish quarrymen? If so, do these Unions compel their members to demand a certain rate of wage, to work only day-work and not piecework, to strike for more wages whenever they think their employer has got a remunerative contract, or is pressed for time, and thus force their employers in tendering for work to put on an extra price, to meet these two probable contingencies? If these Unions do exist, they may be one reason why Cornishmen will see the foreigner doing their work, and at their own doors.

THE WINTER'S FREEHOLD AND GREAT NORTH-WEST GOLD MINES, BALLARAT, VICTORIA.

GOLD MINES, BALLARAT, VICTORIA.

SIR,—In reference to the proposal now brought before the public in London by Mr. William C. Smith, of Ballarat, to mine the ground known here as "Winter's Freehold," and to the doubts held about and objections urged against that enterprise, I desire to state that I have been variously engaged in mining pursuits at Ballarat ever since January, 1856, and that the following is my experience and information in relation to the subject referred to; and, as you have known me formerly, when in the North of England, as one of your correspondents, you will place confidence in my communication.

It is pretty well known, but I may state for the information of those who have not paid particular attention to the subject, that Ballarat is situated about 80 miles from the sea coast, and that it is about 500 feet above the level of the sea, on a part of the Great

palarat is stuated about 80 miles from the sea coast, and that it is about 500 feet above the level of the sea, on a part of the Great Dividing Range of mountains, composed of primitive rocks, slates, and slaty sandstone, covered more or less deeply, from a few inches to several hundred feet, with sedimentary tertiary deposits, alternating in the deeper parts with from one to four layers of basaltic bluestone, from 70 to 140 feet thick.

Mining commenced on the spots where the gold was pear the sur-

stone, from 70 to 140 feet thick.

Mining commenced on the spots where the gold was near the surface at Golden Point, a place now, as may be seen by the map, within the township of Ballarat East. In the early days of gold mining there were no appliances for sinking deep and carrying on extensive mining works; and, in fact, the deeper ground was then little known, and the operations of miners were, therefore, confined to the hills and shallow diggings in the gullies between; the deepest of such workings being generally such as a few men working under the co-operative system would sink in, at the most, a few weeks. But as the part containing what may be called for distinction the proper auriferous alluvial deposits was followed and became worked out it was found that leads or deposits did not ease, but that the held so water. found that leads or deposits did not cease, but that the beds or water-courses which contained them continued to fall, and run under the table land in the close neighbourhood on which the township of Pallarat West stands, the site of which at the time of the earliest

luvial gold deposits must have been a deep valley, or series of lower ranges and gullies, but which is now the part alluded to above as being covered with layers of sedimentary deposits, alternating with from one to four layers of basaltic rock, in some places over 400 ft, deep. The auriferous drift occurs in the ancient water-courses of this ground, just as in the water-courses of the higher ground already described, and the only difference between them is that one is covered up by after-deposits, whilst the other is exposed.

Winter's Freehold is situated about three miles west of Golden Point, on this table land, and beyond a sub-surface reef dividing the

Point, on this table land, and beyond a sub-surface reef dividing the deep basin of the Golden Point lead from the deep basin on which it stands. The deep basin on which it stands is probably a continuation of the deep ground worked up to its north-east corner by the Hand and Band No. 1 shaft, which was once the famous Band of

shaft No. On Sept. 1, 1857, as superintendent of the old Victoria Gold Mining Company, I commenced to bore at a part three-quarters of a mile west of the east corner of Winter's Freehold property, and 338 feet from its northern fence, as marked on sketch, and reached a depth from its northern fence, as marked on sketch, and reached a depth of 147 feet, when the company, being co-operative, and the undertaking appearing too heavy for its means, broke up. Ten years after, June 1867, I was similarly engaged by the Band of Hope Company, into whose hands this ground had fallen; and I was instructed to open out and continue this bore. The result was that, after passing through three layers of basaltic bluestone, we reached the bottom schistose rock, at a depth of 333 feet. At the last-mentioned time I was also conducting two bores, about 800 feet from the eastern fence of the said Winter's Freehold property, and about three-quarters of a miles south of the north-east corner, and after passing through two layers of basaltic bluestone reached the bottom schistose rock, No. 9 on sketch, at 220 feet; and No. 10. as on sketch, after passing through trough

through it, it is found in nearly all cases to be gold-bearing; hence the confidence with which the miner exerts himself when he meets with these indications. They occur in the two deep bores to which I have referred.

Doubtless it would have been a good thing to warn capitalists against a merely speculative scheme, but it was also not a good thing to check legitimate mining enterprise; and the facts I state could have been learned by the correspondent of the "Bankers' Magazine" if he had been at the trouble to examine the statistics of the mining

if he had been at the trouble to examine the statistics of the mining companies I have named.

ROBERT HENDERSON,

Ballarat, Jan. 29.

* Our correspondent refers to an article which appeared in the "Bankers' Magazine" some few months since, and now almost forgotten. Our contemporary, unwittingly no doubt, had been made a tool of by his colonial correspondent—a contingency London editors are always liable to who admit disparaging statements from distant contributors. It is well to remember, however the proverb—"It is an Ill bird that fouls its own nest." Detraction under all circumstances is of itself suspicions, and should induce caution. But such articles as the one referred to in the "Bankers' Magazine" fortunately disarm themselves. It simply consisted of inuendo, with a promise" to state all particulars in our next;" a promise it is almost needless to state still unfulfilled. The writer, of course, knew that a direct definite charge could and would be immediately and effectually replied to. The letter of the Melbourne correspondent of the Times, which appeared about the same source), and it is easy to show was written by someone who must have been ignorant of the matters he professed to handle.

WEST WAN MINE

WEST VAN MINE.

WEST VAN MINE.

SIR,—It was exceedingly modest on the part of Capt. Lean, saying that he was not surprised at seeing a reply to his letter relative to the West Van Mine, which is situate about two miles west of the well-known Van Mine, and he positively asserts was formerly called Penelryn, and, therefore, has nothing to relinquish. I think your correspondent has come to a very wise conclusion, for whilst grasping at the shadow he has lost the substance. On behalf of West Van Company I have taken the precaution to register, and, therefore, cannot allow any other company to partake of that name in the Lianidiose district. If the Penelryn Company imagine they can establish a prior claim to the name they will have to go to the Court of Chancery to restrain us from using the name that we have adopted. I think this will settle the question as regards West Van Mine.

J. P. Endean.

Ethelburga House, Bishopsgate-street, London, March 31.

MANUFACTURE OF STEEL IN SOUTH WALES.

Probably there is no question occupying the more serious attention of the manufacturing world, or one of greater moment and importance generally, than the make of steel. We are not now going to enter upon the debateable ground as to whether or no steel will supersede the use of iron; that is a question which has often been discussed, but to which time alone can give the practical solution. There can, how ever, be no doubt that the manufacture of steel will, somer or later, prove a new era in our manufacturing history, and once the puzzling problem solved of the manufacture of steel direct from the ores, the problem solved of the manufacture of steel direct from the ores, the trade, now in its infancy, will receive an impetus which probably the most sanguine scarcely now dare to anticipate. Within the past ten or twelve years the manufacture of steel has made important strides in a commercial point of view, but there are still difficulties to be encountered, and questions to be solved, before it can be said that its manufacture is worthy to be ranked amongst our principal staple productions. Every day the demand for steel becomes greater, and it is this demand which because the latest the result of the productions. demand which has created in the minds of manufacturers and capi demand which has created in the minds of manufacturers and capitalists the desire to manufacture the article in such a manner as will enable them to place it before the world in fair marketable competition. Hitherto the cost of steel has practically kept it out of the market for many of those purposes for which it is admirably and specially adapted. For instance, the laying down of steel rails for any large number of miles would, at its present price, form too costly an item for any but the most wealthy proprietary, and would doubtless. item for any but the most wealthy proprietary, and would doubtless be regarded, even by them, as of questionable policy. In many other respects the demand has been limited by the prime cost of its production, consequent upon the enormous expense of the plant necessary for its make; but, without taking a too sanguine view, we believe the day is not far distant when it will be found possible to manufac ture steel at such a cost as to place it, all things considered, in fair competition with iron, and that where durability is an important con-sideration, and where there is great wear and tear, the advantages of steel over iron will be so apparent as to lead to its almost universal adoption. We regard the new works of Messrs, L. L. DILLWYN, M.P., and Co., just erected at Landore, Swansea, as another step in the right direction in the manufacture of steel, and in the practical solution of that puzzling problem to which we have before referred—making steel direct from the ores. Before, however, referring more particularly to the new works near

Swansea, it may be interesting to take a hasty glance at the strider which have recently been taken in the manufacture of steel. It is of course, well known that before Mr. BESSEMER introduced his great rocess the manufacture of steel was from Swedish iron being melted process the manufacture of steel was from Swedish from being melted in pots. Some 10 or 12 years ago, however, Mr. BESSEMER at the Cheltenham meeting of the British Association, propounded his startling process for making steel direct from the blast-furnace. With a commercial spirit and promptness which reflected much credit upon them, the process was taken up by the Ebbw Vale and Dowlais Companies; but, although those companies successfully combatted with all the difficulties which beset the manufacture of control of the process was successfully companied by the process was successfully the process was successfully companied by the process was success compated with all the difficulties which easier the maintacture of an article by an entirely new process, little practical progress was made for several years. Latterly, however, success has crowned their efforts, and immense works are now being carried on, not only at Ebbw Vale and Dowlais, in Wales, but in Lancashire and other parts of England; and it is generally believed that of all successful inventors which England has produced few, if any, have been rewarded for their comins and scientific knowledge more satisfactorily than has ventors which England has produced few, if any, have been rewarded for their genius and scientific knowledge more satisfactorily than has Mr. Bessemer for his discovery. Various improvements have been attempted in the manufacture of steel, but practically steel cannot be produced at prices by which it could be converted into rails by any other than the Bessemer process; while the enormous cost of the plant necessary for carrying this into operation, as before observed, has hitherto prevented any other than the very large capitalist from dealing in steel rails. Some time ago Messrs, Samuelson erected steel furnaces in the North of England upon the SIEMENS-MARTIEN principle, and a few weeks ago rails were produced by that firm from steel manufactured under that patent. The SEIMENS patent for the manufacture of steel has been for some time in opera-

firm from steel manufactured under that patent. The SEIMENS patent for the manufacture of steel has been for some time in operation in Leeds; and at the large works of the London and North-Western Company, at Crewe, the quality produced has been tested by experience, and, like the rails produced by the Messrs. SAMUELSON, have given great satisfaction.

The Messrs. DILLWYN and Co. have just erected steel works at Landore, near Swansea, and in their construction the greatest care has been taken to make them worthy the repute which the firm has already obtained in the manufacturing and commercial world. The smelting operations in connection with the silver works of this firm have been removed from Landore to Llansamlet, in connection with have been removed from Landore to Llansamlet, in connection with have been removed from Landore to Liansamiet, in connection with their spelter works, and the silver works at Landore have been converted into steel works. The works are upon SIEMENS' patent, and two large steel melting-furnaces, and a couple of puddling-furnaces, are completed; and a large mill, specially adapted for rolling steel, is being erected. The works have recently been partially started, and we are given to understand that one melting-furnace has during the past week been in operation, and the results have been in every respect satisfactory. Steel produced from various mixtures has been tested, and has answered the fullest expectations of the parties intested, and has answered the fullest expectations of the parties interested. One of the first castings made at the new works was that of a 70 ton east-iron block, which was required by Mr. W. WILLIAMS, iron founder, St. Helen's Works, Swansea, for a steam-hammer. Three cupolas were specially erected at suitable distances, to enable the metal to run directly into the mould, and charges were run in at regular intervals of three-quarters of an hour, until the block, containing the full weight of 70 tons of solid iron, was failed, and the largest casting ever made in Wales most successfully completed. The dimensions of this enormous block are 11 ft. 6 in. by 9 ft. 6 in. at base, and 7 ft. 6 in. high. The block will take from two to three on sketch, at 220 feet; and No. 10, as on sketch, after passing through three layers of basaltic bluestone, at 312 feet, covered with 2 feet of wash dirt, containing a little fine gold, clearly showing a falling west of the bottom, and that a western basin existed between the points of my operations. It is a well-known fact to gold miners that where slaty reef occurs, with an easy cleavage, and quartz veins passing through years puzzled the scientific world will be solved in a satisfactory

manner; and should this be the case, of which apparently there can now be no manner of doubt, another step has been taken in the manufacture of steel which will probably open up a newers in our ma-nufacturing history, and have most permanent beneficial effect upon many important branches of commerce. We need hardly refer to the importance of this question, so far as affecting the trade of Swansea importance of this question, so far as affecting the trade of Swansea and the districts in the immediate vicinity of the new works is concerned, for the development of a new trade in the district cannot fail to prove of material advantage. Importations of ores to a considerable extent will be required to carry on the trade of the new works, and the employment of labour in a new direction will be another element of advantage by the introduction of a new manufacture to those of the staple trades of the district. We, therefore, hail with the utmost satisfaction the completion and starting of the new steel works, sincerely hoping that the enterprise and spirit of the proprietors will be rewarded in a most substantial manner.

The copper trade, and consequently the general trade, of the district has been depressed during the past twelve months, but the enormously increased manufacture of spelter by the Messrs, Vivian and

trict has been depressed during the past twelve months, but the enormously increased manufacture of spelter by the Messrs. VIVIAN and SONS, the Messrs. DILLWYN and Co., and others in the neighbourhood has been a great assistance to Swansea, compensating in a great measure for the falling off in the copper trade. In connection with this last-mentioned trade (the spelter), one of the most satisfactory features is the fact that the brands of the Swansea zinc smelters already stand as good in the market as any of the continental makers, and such being the case, and with new and important works (such as the Landore Steel Works, to which we have briefly referred) springing up all around us, we have still faith in the future of Swansea, and, notwithstanding the temporary depression in the copper trade, believe the town and port will yet see even greater prosperity, in a manufacturing point of view, than has yet characterised it. With this end in view, we have to look to our large manufacturers and our this end in view, we have to look to our large manufacturers and our public-spirited men, and we feel satisfied that we shall not look in vain.

THE GOLD MINES OF VICTORIA, AUSTRALIA-No. I.

Whilst England has been investing her surplus capital in mines in almost every portion of the globe, Victoria hitherto has been indebted to herself alone for the capital and industry which have proved that colony to be doubtless the most productive gold-producing country in the world. Perhaps the most obvious explanation of this apparent anomaly is to be found in the fact that the moneyed classes of England have never yet been asked to assist by their capital in the development of Victorian mines, although another reason, almost equally cogent, for this seeming lack of enterprise may be traced to the circogent, for this seeming lack of enterprise may be traced to the circumstance that mining undertakings in the colony have scarcely been of the calibre sufficient to justify their being placed upon the London market, until they have become so productive as no longer to need assistance. It is true isolated instances may be quoted where English capital has been invested in the colony, such as, for example, in the case of the Port Phillip and Colonial Gold Mining Company; but these Facilies deventures sent out capital for investment without are case of the Port Philip and Colonial Gold Mining Company; but these English adventurers sent out capital for investment without any really definite knowledge of what the nature of their investment would be. The company referred to is, indeed, the only successful venture out of a crowd of similar speculations, for so they must be called, which were started in London during the gold mining furor of 1852. But to those who have had the opportunity of witnessing its growth, the present existence of that company must appear little short of a prisedle. There is very literally a gold mining conners without the present existence of that company intest appear inthe snort of a miracle. It was for years literally a gold mining company without a mine of any description. The very end and aim of every mining regulation enacted during the first years of the gold fields era in Victoria was to strangle capital, and strangle capital they did most effectually for the time. There was no such thing known or allowed as an amalgamation of claims. If the owners of twelve claims wished to amalgamate, and save the sinking of eleven unnecessary shafts, the law expect in and prevented it and twelve whafts had to be such to amagamate, and save the staking of eleven unnecessary shafts, the law stepped in and prevented it, and twelve shafts had to be sunk. The title to the ground held by English companies was, ab initio, defective, being derived from the possession of gold fields licenses by the men they employed, who could repudiate at any moment, whenever it paid them better to do so; it was purely one of sufferance, held conditional upon the good faith of its employees. Capital could not hope to be successful under such circumstances, and no wonder, therefore, that taxital had to success the latter company and but one company tested in fore, that capital had to succumb, and but one company started in 1852 is left alive to tell the tale. The Port Phillip Company, for years engaged buying experience, fortunately did not outlive its capital or the patience of its shareholders, but was in a position to await the arrival of broader views, and to reap ultimately the harvest it had sown. The very essence of success was wanting in all these early-formed companies. They were speculations formed in the most specformed companies. They were speculations formed in the most spe-culative mould, and nothing but the veriest good luck and good ma-nagement combined, in the one instance spoken of, could have sus-tained life throughout all the countless difficulties which had to be

nagement combined, in the one instance spoken of, could have sustained life throughout all the countless difficulties which had to be encountered at the beginning.

Just about the time the Port Phillip Company acquired the Clunes property, which has proved its salvation, the necessities of Ballarat mining had begun to enforce in that district a reform which led to broader conceived mining regulations; the basis of that reform has been widening ever since up to the present time, until the area now allowed to be occupied by a single company is ample, and the terms liberal almost beyond measure. The wisdom of so enlightened a policy, looking now upon the rich fruit it has borne, is unquestionable; and undertakings have continued to grow in magnitude, to the greater economy of mining operations, and consequent benefit to investing shareholders. Ballarat, it must be admitted, has given the tone to mining throughout the colony, and there is no district but what has benefited by her experience. Bendigo, with her rich lodes, Maldon, Plensant Creek, Inglewood, et has genus omne, will all show corresponding results when they have experienced the benefit of capital in the same degree as the more favoured district of Ballarat. The deep sinking necessary in the latter district rendered digging (the less skilled mode of gold raising) impossible, and miners were compelled to accumulate capital by co-operative labour, and bank it in their mines, success being a work of time. After awhile the mines grew to be dividend-paying; full fortieth to eightieth shares in a number of them were marketable at from 1000!. to 3000! each, and the demand for hired labour increased. This is how the capital accumulated which has made Ballarat the wonder it is. The shallow diggings of other districts, however, being capable of successful simultaneous occupation by large armies of individual workers, were rifled of their wealth in comparatively short periods, and by the time the lodes—a later discovery in most instances—were far enough admultaneous occupation by large armies of individual workers, were rifled of their wealth in comparatively short periods, and by the time the lodes—a later discovery in most instances—were far enough advanced to need capital for their proper development there was not that accumulation of capital to fall back upon. The money easily got in the first flush of the gold fields had been as quickly spent, giving another verification of the adage, "light come light go."

The gold-bearing gutters, or ancient water-courses of Ballarat, for it is of those it is proposed to speak more especially in the present article, are not less remarkable for their extent than for their exceeding productiveness. Within a mile and a half of the claim of the Koh-i-noor Gold Mining Company, and on a tributary of the same lead for which that company was registered, a party of miners

same lead for which that company was registered, a party of miners were at work for a few weeks, who arrived in the colony by the Great Britain, in 1852, and were enabled to leave by the same vessel on its homeward passage, with a fortune of 2000% each. The actual money capital of the Koh-i-noor Company was only some 10,000%, yet it has paid to its shareholders already no less a sum than 272,460%. It was returning dividends in 1861, and has pursued a successful career up to the present moment. The object of thus mentioning this company is simply to show how little distant the present successful mines are from the scene of some of the earliest efforts on the metropolitan gold field. The majority of the dividend-paying mines of Ballarat even now are situate within three miles of the main street of that township, and within that radius the area of virgin ground is by no means inconsiderable

Notwithstanding circumstances so favourable for the accumulation of capital, the increase, great as it undoubtedly is, has been far from commensurate with the demand and the opportunities offering for commensurate with the demand and the opportunities offering for profitable investment. The floating capital at liberty for mining has found almost sufficient outlet in undertakings of lesser magnitude; schemes of larger proportions, for want of the necessary capital, have had to await the progress of a slew development, altogether incompatible with the extensive character of the undertakings themselves. This is one and the chief reason why the shareholders in two of the largest and most promising undertakings in Ballarat resolved, some few months ago, to place half their interest upon the London market. There is another advantage to be derived by colonial shareholders, scarcely second to the other, which is that half the shares being held by a London proprietary who can afford to hold, and who would not be, like colonial investors, continually compelled to sell, shares will acquire a steady value, more in proportion to the prospects of the mines and the dividends they may pay than otherwise would be the case. Although the advertisement to be found in another column of this day's Journal furnishes information respecting the most salient points of interest in the two companies now offered to the London public, some additional particulars we possess, but for which we are unable to make room, will prove highly interesting to our readers.

[To be continued in next week's Journal.] patible with the extensive character of the undertakings themselves. This is one and the chief reason why the shareholders in two of the

[To be continued in next week's Journal.]

AUSTRALASIAN GOLD.—There seems little reason to doubt that the yield of Australasian gold is on the increase, this result being attributable, as we shall show presently, to the discovery of several new fields. In the year 1868 we received Australasian gold to the value of 6,989,5944, as compared with 5,801,2074. In 1865, 5,063,1704. In 1865, 5,063,1704. In 1865, 2,666,9714. In 1864, 5,995,3684. In 1863, 6,794,964. In 1866, 5,063,1704. In 1865, 2,666,9714. In 1864, 5,995,3684. In 1863, 6,719,0604. In 1869, 408,995,3684. In 1863, 6,719,0604. In 1869, 408,995,3684. In 1863, 11 will be seen that the total receipts of Australasian gold for the 10 years ending 1868 inclusive were altogether increasing of late, it had been decilining for some time previously, the aggregate, with the exception of 1859. Although the yield of Australasian gold has been increasing of late, it had been decilining for some time previously, the aggregate receipts for the five years ending 1863 inclusive baving been 34,374,9124., while for the five years ending 1863 inclusive baving been 34,374,9124., while for the five years ending 1863 inclusive, the corresponding aggregate was only 71,338,6164. The imports of Australasian gold showed, however, a tendency once more to increase, even towards the close of last year, the imports of December being valued at 633,4624., as compared with 510,1934. In December, 1867, and 608,0624. In December, 1866. This result is due, as we have before observed, to the development of new gold fields, more especially in Queensland and New Zealand. In New South Walest there has been a rush to Spring Creek, and a population of 14,000 had accumulated at the last dates. What was styled in the colony the "Berlin rush" had also produced some large nuggets; one weighing 13½ bs. had been found in Power's Gully. In Queensland, the Gymple diggings appear to be very rich. The last advices from Brisbane report that in four days 206 tone of quartz were crushed from different reefs in the Gymple field does not exceed 20,0004, wh AUSTRALASIAN GOLD.-There seems little reason to doubt that the

A MONSTER NUGGET.—The telegraph brings the intelligence that gold nugget, weighing not less than 200 lbs. troy, has been found in Victoria. Is doubtful whether so large a quantity of the precious metal has ever been und before to one masss. The great nugget of 1858 weighed only 146 lbs. It noticeable that all these great lumps of gold have been found in Australia. 1730 a nugget, thought at that time to be immense, was turned up at Peru, it it weighed not more than 60 lbs.

but it weighed not more than 60 lbs.

A VALUABLE INVENTION.—Mr. Buttle has constructed a patent eradie specially adapted to gold fields such as Spring Creek, where water is not obtainable. The length of the cradle is 5 ft.—It is provided with two inclined hoppers, both moving laterally with rapidity. Dry earth or matrix is supplied at the top of each hopper. Perforations of graduated dimensions are adopted in the hoppers, those at the top being the smallest. A fan, also graduated, revolves with great rapidity between the hoppers, and the dust is blown away, leaving the fine and coarse gold in separate compartments partitioned at each side of the cradle. It is said that, if skilfully used, the operation will be equally as effective as by washing, and much cheaper.

ANGLO-FRENCH INTERNATIONAL RAILWAY BRIDGE.

That a project so entirely without precedent in the engineering world, and so gigantic in conception, as the Channel Railway Bridge of Mr. BOUTET should be met by the publication of statements that there are enormous obstacles in the way of its realisation might resonably have been anticipated, and it must be admitted that the only mode of meeting these objections is by referring the opponents to the experience derived in connection with existing structures, and in the performance of work most nearly approaching in character that to be performed. It must be remembered that the objections and oppositions met with are exactly similar to those which were encountered in the earlier days of all propositions calculated to bring about great social changes. It was said that to print by steam was impracticable, yet we now print 10,000 sheets an hour with a single machine; illumination with coal gas was looked moon as a practice. about great social changes. It was said that to print by steam was impracticable, yet we now print 10,000 sheets an hour with a single machine; illumination with coal gas was looked upon as a pretty experiment for a chemist in his laboratory, but as totally inapplicable on the large scale, yet gas engineering has now become a recognised branch of the engineering profession, many engineers devoting their entire lives to the subject, whilst gas has become really one of the necessaries of life. Nor were even railways themselves free from the attacks of opponents, and the great engineer, who was afraid to state publicly that a speed of 8 miles per hour would be exceeded, though he privately whispered that he thought 12 miles per hour possible, lived to travel at the rate of 80 miles per hour, and 50 miles per hour is now regarded as nothing extraordinary for an entire journey. Instances of this kind might be increased to almost any extent, and although, of course, they afford no evidence whatever of the practicability or otherwise of the Channel Railway Bridge, they prove at least how dangerous it is to condemn as worthless a proposition which has not, by actual experience, been shown to be absurd or incapable of realisation.

The objections which have been raised to the bridge may be considered under three heads—those relating to the bridge may be considered under three heads—those relating to the bridge, and those relating to the inconvenience and danger which the piles might cause to the navigation of the Channel. Now, although the EMPEROS of the French is not a man likely to give his countenance to so great an enterprise as the Channel Railway Bridge without fully considering all these points, and demanding the necessary evidence that the difficulties in such important directions as these were not insurmountable, it is scarcely probable that the unsupported opinion of Mr. BOUTET upon the subject would be accepted by capitalists and the public, who, being themselves unacquainted with the details of the science o

science of engineering, are compelled to draw their conclusions from the opinions of others. To meet this case, the committee of the preliminary company in Paris have obtained a report from a number of
naval authorities, in whose opinion the greatest confidence will be
placed. The report is signed by Capt. I. DIEFFENBACH, who has
official charge of the port of Calais; by Messrs. BEAUGRAND and
MONNIERE, harbour-masters, of Calais; by Capts. JUTELET and
GOURNAY, of the French postal service between Calais and Dover;
and by Mr. E. MULABD, an experienced pilot, of Calais. Their arguments appear to be thoroughly sound, and the conclusions they
have drawn from them are highly satisfactory.

With regard to the floating and fixing of the piers, they contend
that a pier constructed as Mr. BOUTET proposes would, in a clear seaway, present less volume to the action of the elements than an ordinavy ship, whilst the aggregate weight would not exceed that one.

that a pier constructed as Mr. BOUTET proposes would, in a clear seaway, present less volume to the action of the elements than an ordinary ship, whilst the aggregate weight would not exceed that carried by ships of large tonnage, so that if the buoys were in equilibrio the floating would present no difficulty. All that will be necessary is to proportion the buoys to the weight to be carried. For the traction of the pier the use of several tugs would not be objectionable, the proof of this being that at the present time no difficulty is experienced, either from accidental disconnection or otherwise, in towing vessels laden with ballast from Boulogne to Dover, a single tug taking over almost daily ten belandres (sort of sen-going barges) attached one behind another by ordinary cables, and they consider that it requires much more skill and care to navigate such a train than would be necessary with one of the piers. They consider, moreover, that the fixing of the piers would present no difficulty, and that Mr. BOUTET's system of sinking them would have advantage over the usual system of sinking a vessel by overloading it, inasmuch as the descent can be more easily regulated. From the action of the wayes upon the piers after they are fixed in position they see nothing the descent can be more easily regulated. From the action of the waves upon the piers after they are fixed in position they see nothing to fear. It is true that the sea is very rough in the Straits of Dover, and there are more breakers than in the open ocean; but they say, from the form of the piers, they will present a very limited surface, and their enormous weight and size will entirely annul the effect of the

waves, which, moreover, will be destroyed by the angle-iron of which the piers are to be constructed. The effect of the waves will be much less felt in the centre of the bridge than near the coasts, yet the Waldant Lighthouse must remove all misgivings as to the stability of the most doubtful parts, for, although even lighter relatively than the proposed piers, and situated on the most dangerous part of the French coast, it has long resisted the action of the sea, and remains in good order. They consider that what renders the Changel denin good order. They consider that what renders the Channel dan-gerous is that the wind becomes compressed between the two coasts, but they observe that from the height at which the platform of the bridge will be this compressing action will be much less felt than at the surface of the water; in fact, that the force of the wind will have the opportunity to expend itself upon the surrounding atmohave the opportunity to expend itself upon the surrounding atmosphere. The last objection, as to the impediments to navigation, they consider equally falls to the ground, as the bridge is to consist of spans of 1000 metres, which, as they observe, is equal to ten times the average width of the mouths of harbours, and that there is far greater difficulty in bringing a ship about to get her into harbour than could possibly arise in passing her through the bridge in a heavy sea, and with all sails set. They even go so far as to say that the bridge, with its lights, would be a positive advantage to the navigation, and mention a recent accident arising from a Danish vessel mistaking the Griz Nez light for some light on the English coast, which the electric lights on the piers of the bridge would certainly have prevented. In conclusion, they make several important practical suggestions concerning details of construction, and express a very favourable opinion; but, however valuable such reports may be in removing whatever doubts may still exist as to the practicability of the enterprise, it is probable that the British public will still withhold their substantial support until after the model to scale has been hold their substantial support until after the model to scale has been constructed and thoroughly tested—but if the result of that test be favourable, the requisite financial support will not be wanting.

MINING, METALS, AND MINERALS-PATENT MATTERS. BY MICHAEL HENRY.

Patent Agent and Adviser, Memb. Soc. Arts, Assoc. Soc. Et

Patent Agent and Adviser, Memb. Soc. Arts, Assoc. Soc. Eng.

Mr. WILLIAM THOMSON, of Glasgow, has specified a patent relating to tools or apparatus for expanding or cutting tubes and metallic rings, part of which improvements is applicable for withdrawing ferules from the ends of boiler-tubes. This invention relates, firstly, to the expanding of tubes and metallic rings, and it consists of an instrument composed of a body-piece, to which expanding cones are fastened, their ends being held in dove-tailed slots in the face of the body, so that they may be free to move in a radial direction to and from the central part of the expander. Through the body of the expander a spindle passes, one end of which is provided with taper grooves to receive the expanding cones; the other end of the spindle is screwed, so that by tightening the nut thereon against the body the inner tapered surfaces are drawn against the cones, which are, consequently, forced out or against the inner side of the tube or ring to be expanded; and when sufficiently tightened the expander is rotated within the ring or tube, by which action it is expanded equally at all points. In the instrument, as arranged for cutting pieces or tated within the ring or tube, by which action it is expanded equally at all points. In the instrument, as arranged for cutting pieces or lengths off a tube, the conical expanding rollers are substituted by expanding cutters, fixed by a hinge, or other joint, to the body of the instrument; these, being acted upon by the expanding cone, are powerfully forced against the inner part of the tube or ring to be cut, and thereby effects its separation. In place of forming the central part of the expander with grooves to receive the expanding cones a simple central cone may be used without grooves. In the second part of this invention, which consists of a modification of the preceding, and to be used for withdrawing ferules from boiler-tubes, the links or this invention, which consists of a modification of the preceding, and to be used for withdrawing ferules from boiler-tubes, the links for catching the inner end of the ferule are expanded in manner similar to that used in the foregoing; and a bridge-piece passes over the central spindle, so that by tightening the nut against the bridge-piece, which bears against the end of the tube or tube-plate, the force applied withdraws the ferule.

Mr. ALEXANDER ROLLASON, of Pembroke-road, Clifton, has obtained a patent for purifying coal gas and obtaining ammonia from

tained a patent for purifying coal gas, and obtaining ammonia from coal gas products. Peat bog, or other similar decomposed vegetable matter, is disintegrated, and mixed with sulphuric acid, and if the dematter, is disintegrated, and mixed with sulphuric acid, and if the decomposed vegetable matter requires to be artificially dried before the acid is added care must be taken not to burn or char it. The product of this part of the invention is designed to be used in an ordinary gas purifying-box, apart from the other purifying-boxes, and the gas should pass through it first after it leaves the scrubber, so that any ammonia which the scrubber has failed to work out of the gas is arrested as it passes through, forming sulphate of ammonia. When the gas passing through it turns red litmus paper blue it is spent, and should be replaced by fresh; the sulphate of ammonia is then washed from the spent product, or used as an artificial manure in the state in which it leaves the purifying-box, or it is subjected to a moderate heat to drive off the tarry matter and smell which clings to it, or neutralised ammonaical liquor is evaporated upon it, which deprives it of the tarry matter and smell, and adds any desired proportion of ammonaical salt to it.

OBTAINING MOTIVE POWER.—Mr. EDWARD LEDGER, of Edward's-terrace, Commercial-road, Peckham, uses a cylindrical pump of suf-ficient capacity that when connected with the cylinder of a hydraulic ram by a proper sized connecting-tube on each depression and eleva-tion of the piston of the cylindrical pump there will be a correspond-ing elevation and depression of the ram in the hydraulic machine ing elevation and depression of the familian power. By the use of two or more of the aforesaid described machines acting on a suitable crank he obtains hydraulic motive power. He uses the machines in connection with animal, wind, water, or steam power, according to the purpose to which he wants to apply them, or the economy by which either of the above powers may be used most advantageously.

SMELTING COPPER.—Mr. HENRY CAUSER ENSELL, of St. Helen's, Lancaster, has specified his invention for improvements in smelting copper and other metals, and in furnaces for smelting copper and other metals, and for other purposes, and in obtaining products from the gases and vapours given off during the smelting of copper and other metals. In smelting copper he uses gaseous fuel, obtained by igniting or heating coal in a furnace or closed chamber or retort, or uses inflammable gas, obtained from coal, oil, resin, or other substance from which inflammable gas can be obtained. In using the said gaseous fuel, it is passed through tubes or conduits, which can be heated if desired, so as to heat the gaseous fuel. By means of other tubes or conduits nitrous gas or oxygen and atmospheric air, either hot or cold, can be mixed with the gaseous fuel. The air and gases are introduced into the furnace either at atmospheric pressure, or at a pressure higher than that of the atmosphere, by means of SMELTING COPPER.—Mr. HENRY CAUSER ENSELL, of St. Helen's, gases are introduced into the furnace either at atmospheric pressure, or at a pressure higher than that of the atmosphere, by means of fans or other blowing apparatus. The pipes or conduits are provided with dampers or valves, by means of which the quantity of gases or vapours, and the temperature of the same, may be regulated at pleasure. By the combustion of the gaseous mixture described an intense heat is produced, the combustion being effected in the reverberatory furnace, in which the copper ore to be smelted is contained. The vapours and gases from the smelting furnace descend into a covered space, containing a layer or layers of peroxide of iron, in the state of bog iron ore or bog othre, or in any other convenient form, together with baryta or other absorbent substance, according to the nature of the gases and vapours given off by the furnace. The said gases and vapours, after having been brought into contact with and yielded up to the peroxide of iron or other substance employed such of their constituents as have an affinity therefor, the said gases and vapours are conducted to towers, in which are trays or bars support-ing layers of the materials used for treating the gases and vapours ing layers of the materials used for freating the gases and vapours—that is, principally peroxide of iron and baryta. The gases and vapours may be forced through these towers by a fan or blowing machine, and streams or jets of water may be employed in the said towers to facilitate the absorption of the gases and vapours. Any condensible matters which escape absorption in the towers are made to pass through pipes or conduits containing nitrous acid gas and steam, into a chamber or chambers, such as are commonly used for the manufacture of sulphuric acid. These improvements may be applied to any of the processes whereby copper or copper ores or com-

pounds of copper are treated, as well as to the treatment of compounds of other metals, and for collecting or condensing any volatile matter which may be given off in the treatment of the said copper or copper compounds, or compounds of other metals. The improvements may also be applied to kilns or furnaces for burning or glaz-ing earthenware, bricks, tiles, or pipes, and for other like purposes.

Meetings of Mining Companies.

RHENISH CONSOLIDATED MINING COMPANY.

RHENISH CONSOLIDATED MINING COMPANY.

The annual general meeting of shareholders was held at the offices, Austinfriars, on Wednesday,—Mr. PHILLIP WRIGHT in the chair.

Mr. J. H. MURCHISON (the secretary) read the notice convening the meeting. The report of the directors was as follows:—

The usual full report of the consulting and managing engineer will be laid before you, and it is satisfactory to flud the results of the past year more favourable than those of the previous one. In 1867 the returns of ore realised only 26021, 123-74, against 32921, 138, 10d. In 1868, an increase of 6902, 33, 3d. In 1867 the balance of expenditure over returns was 12434, 78, 5d.; in 1868 it has been only 3641, 168-2d., against 32921, 185, 10d. In 1868, an increase of 6902, 33, 3d. In an increased yield from the lodes, and partly from better prices realised for the ores. The total outlay on the mines (exclusive of block account) has amounted to 18,6814, 68-2d., against which there have been ores sold to the value of 11,9144, 33, 6d. In their last report your directors referred to a discovery at Bilebach, of what was believed to be a new, or "middle" lode; from further development it appears to be a part of the north lode. In the adit it has been division in the contract of the contract of the contract of the contract of the lode; from further development it appears to be a part of the lode (now called the north and middle lode) untel in depth, as is anticipated by Capt. Sweet, the resident agent, to effect may be very important. The length of ore ground, on both parts of the olde, gone down in the bottom of the 10 lachter level is stated at about 35 lachters, valued at 124, per lachter. At Christiana the 20 lachter level has been divised in the past year about 30 lachters, of which 28 lachters are reported to have yielded an average of 1 ton 7 cwts, per lachter, containing more silver than browned to the propress made in developing the mines, but your directors venture to express their opinion that when the lodes are opened upon

Mr. WESCOMB (the auditor) stated that from the commencement of the company ore had been sold to the value of 11,914; and that exclusive of the value of the property, machinery, &c., the assets exceeded the liabilities by 8611. 19s. 4d.

The CHAIRMAN said the reports were so voluminous that he need add nothing in the way of comment. The facts therein stated showed that the general aspect of affairs was more favourable than at the end of last year, and that if they had not actually turned the corner there were good hopes that they would do so in a short time. The point referred to by Mr. Darlington, and also by Capt. Sweet, as to the advisability of sinking a shaft between Bliebach and Christiania, which it was estimated would cost between 29002, and 39002, the directors thought should be deferred at least for the present. He moved that the reports and accounts be received and adopted.——Dr. READ seconded the proposition.

Mr. Dingwall thought if the undertaking really possessed the elements of success it would have been realised long before this.

Mr. Burkinyoung (a director) did not agree with the last speaker. As one who had a large stake in the concern, he was prepared to pay the remainder of the uncalled-up capital due upon his shares, and to further develope the mines, rather than throw up all prospect of recouping himself. It seemed to him that, having entered upon such an enterprise, they were sure to work some time, as it were, in the dark, before any actual discoveries could be expected. It appeared that so far they had gone on gradually improving, and that during the past year sufficient ore had been raised to cover the outlay, as the additional expenditure incurred had been on account of block—so that the result was much better in every respect than that realised during the previous year. At the same time more ground had been on account of block—so that the result was much better in every respect than that realised during the previous year.

Mr. PAPARIL though the resource of their produces of the prop

the ore seemed to be improving; therefore, he thought they might hope to readilse better results.

The CHAIRMAN said that as the directors did not receive any remuneration for their services, shareholders might rest perfectly satisfied that overything would be done to promote the best interests of the enterprise.

Mr. Darlington added that Bilebach and Christiania, with the machinery thereon, were undoubtedly a property of considerable speculative value. He had known properties in Prussia with farless prospects than these sell for 40,0001. The reports were received and adopted unanimously. Upon the proposition of Dr. Rean, seconded by Mr. Dingwall, the retiring directors were re-elected.——Mr. Vescomb was re-appointed anditor. Votes of thanks were passed to Mr. Darlington, Mr. Younghusband, and Capt. Sweet for their continued attention to the interests of the undertaking. Upon the proposition of Mr. Dingwell, seconded by Mr. Pappril, a vote of thanks was passed to the directors may be proceedings.

The Meetings of other companies are published in this day's Supplement. In the contractions of the companies are published in this day's Supplement.

[ADVERTISEMENTS.]

From Mr. EDWARD COOKE: The market has been steady, without much alteration in prices. The Easter holldays have somewhat interfered with general business. The future looks very cheering for the mining interests, both home and foreign. The and lead now command good prices, with every probability of a continuance. Lead mining in North Wales is attracting a good deal of attention. The brilliant success of the VAN MINE has naturally caused some excitement, seeing that the fortunate holders have seen their shares rapidly rise from \$\beta\$. to \$\beta\$L of \(\text{Up} \) to \$\beta\$L of \(From Mr. EDWARD COOKE: The market has been steady, without

reat Laxey, and agent of Sir William Williams, Bart. The only conclusion one can arrive at after perusing their several reports is that the Great Rock Mine scarcely partakes of the speculative character frequently attending mining enterprise, and as such I recommend it to the attention of anyone desirous of embarking in a legitimate enterprise. The prospectus will be issued in a few days, and judging from the numerous enquiries which have already been made, I advise an immediate application for the shares. I may here state that, according to the estimates of various agents, not more than 2000. will be required for all purposes connected with the erection of machinery, dressing-floors, &c., so that it is expected no further call beyond 4l, per share will be required, 1l. of which is to be paid on application, and 3l. on allotment. I write this from Chester, on my way home from a visit to North Wales.

Erom Mr. James Hume: The recent continuous advance in time

which is to be paid on application, and 31, on allotment. I write this from Chester, on my way home from a visit to North Wales.

From Mr. James Hume: The recent continuous advance in tin, and the highly satisfactory sale of Banca on Thursday, renders the tin mines of Cornwall very attractive for investment. Eighteen months ago they received under 501, per ton for their produce, but at the present time 701, per ton is realised; consequently, mines that hitherto have given profits can largely increase their dividends, whilst many others considered progressive or non-dividend will be enabled to occupy a position on the list of profitable mines. All of the established dividend mines, and known as such, have already risen greatly in market value, and though higher prices will no doubt be attained, yet it is amongst the latter class, as their merits become known, that the greatest advance may be expected. Such, for example, as Wheal Unv., now selling atonly 16,0001, who can doubt that it will not soon bring 30,0001. ? SOUTH CONDURROW, now a tin mine, has also the elements of permanency, the only drawback being want of machinery. CARN BREA, now making profits, claims attention. GREAT SOUTH TOLOUS, NORTH CROFTY, NEW LOVELL, and, though speculative, Wheal Mark Florence is sufficient to recommend itself, at so low a price, to investors. There can be no doubt that the proprietors have got a most valuable property that will speak for itself. EAST-CLARDON is again becoming a first-class mine, and self-class mine and self-class mine and the price is light. Marke Valley is still a first-class dividend mine, and a desirable investment.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

TAQUARIL GOLD MINE.—In the agent's reports the value of this line has, I am convinced, been much underrated, for I learn from an eye witces who was at the mine during the last working that not long before the mine as stopped for want of machinery he saw from the bottom of the shaft lumps f rich gold rock, weighing fully 10 lbs., and worth from 1201. to 1401, for the old in the lump. He has no doubt that in clearing up the old levels they will ave the same results.

old in the lump. He has no doubt that in clearing up the old levels they will have the same results.

BRYNYSTWITH.—At two or three of the most material points considerable improvements have taken place during the week.

SOUTH GREAT WORK is now likely to turn out well. They have recently cut two large and fine-looking lodes in a cross-cut, which has been driven over 60 fms.; these lodes already produce rich tinstuff, and they have only driven a few feet on their course. By driving a few fathoms west on the Giant lode they expect to get into a rich lode for tin—at all events, such is the opinion of miners in the locality. The mine is conducted in a spirited manner.

BRYNPOSTIG (Lianidloes).—The sinking of the shaft is proceeding satisfactorily, and it is expected that another level will be commenced by the end of the month. The machinery continues to work well.

MID-WALES.—The shaft is down 7 fms, below the 12 fm. level. The lode in the 12 fm. level. The lode in the 12 fm. level and riving west in the adit is letting out a great deal of water, and an improvement is daily expected at this point. This week there has been sampled 20 tons of lead, and there will be ready in a few days about 20 tons of blende.

At LOVELL CONSOLS the operations are being prosecuted with vigour, and the results will soon be manifest, as there is every indication in the ground to warrant the belief that there is a mass of the ground in the sett which can be worked at a small cost. It is expected that they will sell a good parel of the before the next meeting, and continue to do so regularly.

WHEAL ARGENT.—This mine, spoken so highly of by Captain Gifford, of Prince of Wales Mine, blds fair to make a first-class property; 600, worth of silver ore has just been extracted from a piece of ground only 6 fathoms long by 3 fathoms high. Mr. Matthew Greene has been appointed the London manager and secretary.

wager and secretary.
WHEAL AGAR.—Capt. E. Rogers (April 1) writes that their pro-WHEAL AGAR.—Capt. E. Rogers (April 1) writes that their progress in the last three months has not been so good as he expected, chiefly owing to the unusually heavy rains; he, however, expresses his unabated confidence in an early discovery that will amply reward the shareholders for their perseverance. The extra costs for the past quarter is owing to the large quantity of coals required during the winter motths, and also the extra amount of timber required to case and divide both shafts and put in skip-road.

TIN VALLEY.—The sanguine expectations of the manager of this

TIN VALLEY,—The sanguine expectations of the manager of this property seem to be more than realised, as the appearance of the lode is in favour of its becoming valuable in further driving. The lode now produces good it instuff, which will pay to stamp. This, with the halvans at surface, will keep the stamps in constant work for a considerable time, and it appears to be a question whether it would not be advisable to erect additional stamps at once. Great South Chiverton,—The prospects are much better than for some time past. Rapid progress has been made in driving the 20 east to intersect the Chiverton lode, and there only remain about 10 fathoms further to drive to reach it, when an important improvement may be expected. The 50 west is also showing signs of becoming valuable, as it is draining the 40 fathom level fask, which will enable them to sink from the 40 in the rich lead ground already passed through.

already passed through.

ABERDAUMANT.—From a recent inspection it has been clearly shown that the lode on the hill extends from east to west, going down in virgin ground. With a sufficient force it should return from 10 to 20 tons of first-rate lead ore per week. The pile of ore on the surface is estimated at 30 tons, and this has been met with, not on a search for lead, but morely while working to develope the ground; nor is it taken from the Van lode, but from a parallel one from 10 to 12 ft. wide. The Van lode, where seen in the cross-cut in the deep adit, is about 30 ft. wide. A winze has been sunk in the south part of this lode with the most satisfactory results. No finer lode could be hoped for in any mine, and it can be developed with the greatest ease. The ancient pits on the top of the hill are surrounded by pites of small stuff, estimated at 150 tons, which would pay well to crush. Besides this, good stones of lead are to be found in all directions. For a comparatively small cost the Aberdaunant may be made to equal, if not to surpass, any mine in the Lianidlees district, not even excepting Van.

GREAT ROYALTON .- Capt. T. Parkyn (April 1) reports-The en-GREAT ROTALIOS.—ORD, I. FIRRYIN (APIII I) PEOPES—The engine was sent on the mine on Saturday last, as I reported. The surface drain is being completed, so that all the surface water will be carried off. We are now engaged in fixing the engine, and shall commence sinking the shaft next week. The engine will be at work in a fortnight with the shaft sinking and the raising. You will remember I reported that the will be raised the first day we commence sinking the shaft. I shall at once attach stamps, so that you will have a good batch of the in the market in three months after the engine is set at work, after which regular and increasing returns will be made. You may rely that everything shall be pushed on with all possible dispatch.

will have a good batch of tin in the market in three months after the engine is set at work, after which regular and increasing returns will be made. You may rely that everything shall be pushed on with all possible dispatch.

WEST BASSET MINE—(Special Report),—Agreeably with your instructions. I have this day examined the tin department of West Basset Mine, which is situated to the east of Thomas's shaft, and I beg to hand you the following as my report thereon:—Carnkie shaft is sunk to the 75, on the eastern cross-course, where they have placed a double skip-road, thereby making every facility for hauling a large pile of tinstone. Hambly's lode is about 18 fathoms south from middle ladge pile of tinstone. Hambly's lode is about 18 fathoms south from middle lode. The 65 is driven west from cross-course, on this lode, 25 fms.; lode averaging from 20 in, to 2 ft. wide, producing tinny work, probably averaging from 3t lot 6f, per ton, which will set on tribute at from 8s. to los. In 1. The lode in the end is 15 in, wide, and poor; at 11 fathoms west from the cross-course another rise is put up 7 fms., thereby laying open tribute ground. The 52 is extended west from the said cross-course 18 fms.; lode 18 in, wide, producing a little tin, but not of much commercial value. From this level to the surface it is all whole ground on this lode.—Middle Lode: The 65 is driven west of the ross-course 56 fms,; the lode in the end is small and poor, but for nearly the whole of the driving the lode has been producing tinny work, in places a good lode, the average being worth 5t. to 6t. per fathom, which is paying ground. At 19 fms, west from cross-course, where they discovered a very large lode, in places probably more than 20 ft. wide, because no satisfactory south wall has yet been seen. Here they have a large extent of valuable tin ground, varying in value from 10t. to upwards of 50t. Per fathom. At this id-liven south, 85 fms. west from the Carnkle cross-course, where they discovered a very large lode, in places probably m

FOREIGN MINES.

THE MINING JOURNAL.

FOREIGN MINES.

Nevada Land and Mining Company.—J. A. Robertson: The subbined extract from the "Daily Atta California." of Jan. 19 gives intelligence of great interest to shareholders in this company and others, and you experience of great interest to shareholders in this company and other, and you experience of the company and others, and you experience of the company and others, and you experience of the company and others, and you experience on the Comstock tedge are not very profile in bullion. The main effort of the leading mines in owt of decover ore in the lower levels. In some cases, as in the Jacket and the Hale and Norcross, this has been done to a certain of the company of the company of the expense of the dead over knows upon an experience of the company of

[For remainder of Foreign Mines, see to-day's Supplement.]

MANCHESTER GEOLOGICAL SOCIETY.—A meeting of members was held on Tuesday, at the Museum, in Peter-street; Mr. Aitken, Vice-President in the chair. A specimen which appeared to be the fossil remains of some reptile, was exhibited by Mr. Edwin Twomicy, who had found it in a mountain coalmine, at Crompton, near Oldham. Some conversation took place with regard to it, and the opinion was expressed by the Chairman and other gentlemen that it ought to be examined by a skilled palmontologist. A vote of thanks was passed to Mr. Twomley for having brought it under the notice of the Society.

SOCIETY OF ENGINEERS.—On Monday evening a paper will be read "On the Methods Employed in the Determination of the Commercial Value and Purity of Coal Gas," by Mr. F. W. Hartley.

LONDON, ASSOCIATION OF FOREMEN ENGINEERS.—The monthly

LONDON ASSOCIATION OF FOREMEN ENGINEERS.—The monthly meetings of members of this institution are henceforth to be held at the City Terminus Hotel, Cannon-street. The first assemblage at that place is appropriated for Saturday (to-day), when Mr. J. Newton, of Her Majesty's Miut, President, will deliver an address, and this will be followed by apper to be read by Mr. R. B. Vinicombe, of the Royal Arsenal, Woolwich, on "Gunpowder Machinery." It is hoped that the increased and indeed admirable accommodation now provided for members and friends of the institution will induce employers of engineering labour, as well as their managers, foremen, and draughtsmen, to attend the sittings in larger numbers than ever, and thus to augment the influence and value of this useful society. LONDON ASSOCIATION OF FOREMEN ENGINEERS.—The monthly

NEW MIXTURE FOR TEMPERING STEEL .- A locksmith, of Mul-NEW MIXTURE FOR LEMERKING STEEL,—A locksmith, of Mul-bouse, named Herrenschmidt, claims to have discovered a mixture which is said to give to the commonest steel the grain and the temper of the finest cast metal, and, moreover, to have the power of bringing back the original quality of steel which has been burnt. The mixture is composed as follows:—With 16 litres of distilled water mix one kilogramme of hydrochloric acid, 19 grammes of nitric acid at 38°, 21 grammes of sulphate of zinc, and 100 grammes of tripoil. In this mixture is to be placed a piece of cast-iron of the first fusion, weighing 100 gram-mes; when the acid mixture has acted on the iron for 24 bours, the composition is ready for use in the ordinary way, and it remains effective till it is all used.

Messrs. Churchill have announced the speedy publication of a series of photographs illustrating the various diseases of the human hair. The work will be edited by Mr. Balmanno Squire, one of the surgeons to the hospital for skin diseases in Great Mariborough-street. Each of the photographs will be coloured from iffe.

DISCOVERY OF LEAD ORE IN NORTH YORKSHIRE.—Much interest has been awakened during last week by reports of the discovery of lead ore on the Rosedale Moors, in close proximity to the well-known ironstone mines of the Ferry-hill and Rosedale Company. Examination has shown that lead exists where least expected. Scientific examination is to be made, with a view to report as to the feasibility of working the new mineral. In the event of the new line of railway proposed between Malton and Helmsley, a branch would serve the new district.

following result:— t. c. q

1888.—Nov., sampled 382 20 10 tinstone, producing by assay 11 10 0 21 of tin.

1899.—Jan. 189

RAILWAY WAGON WORKS, BARNSLEY.

MESSRS. G. W. AND T. CRAIK ARE PREPARED TO

SUPPLY COAL AND COKE WAGONS OF EVERY DESCRIPTION,

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COLLIERY RAILS for underground and tramways, In stock, for prompt delivery, by
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WIRE ROPE TRANSPORT.

WIRE KOPE TRANSPORT.

THIS SYSTEM is applicable to the TRANSPORT of MINERALS, of AGRICULTURAL PRODUCE, and of MERCHANDISE in general. Its cost per mile is less than that of any known description of road or way, commencing at £250 per mile. It can be carried over any description of country without more engineering work than is necessary in constructing a telegraph line. It is admirably suited for establishing BRANCH GOODS LINES and EXTENSIONS in NEW COUNTRIES. Its working cost little exceeds that of regular railways, and is not one-third that of the common road transport. A ine of three miles can be seen in operation. M. BEALE, Secretary. The Wire Tramway Company, 21, Gresham-street, E.C.

IMPORTANT NOTICE.

TO GOLD AND SILVER MINING COMPANIES. THE BRITISH, COLONIAL, AND FOREIGN PATENT

GOLD AND SILVER AMALGAMATING AND WASHING MACHINE COMPANY (UNDER "RICKARD AND PAUL'S PATENT") Are prepared to EXECUTE IMMEDIATE ORDERS for the AMALGAMATING MACHINE in fourteen days from receipt of order.

Applications for prices, prospectuses, &c., to be made to the Secretary, MR. H. C. HOUSE, 1 and 2, GREAT WINCHESTER BUILDINGS, LONDON, E.C.

COLLINGE'S PATENT SPONGE CLOTHS.

FOR CLEANING STEAM ENGINES, EVERY DESCRIPTION OF MACHINERY, LAMPS, WINDOWS, &c., &c.

Being a woven fabric, they are easily washed, say 20 times, consequently do not cost one-fourth the price of cleaning waste. TRADE ALLOWANCE MADE TO DEALERS, FACTORS, AND AGENTS.

Samples and prices upon application to DANIEL COLLINGE AND SON.

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GENERAL MINING COMPANY FOR IRELAND MAKERS OF ZINC OXIDE.

OFFICES,-29, WESTMORELAND STREET, DUBLIN.
MINES AND WORKS, SILVERMINES, COUNTY TIPPERARY.

The Directors beg to intimate to PAINT and COLOUR MAKERS, INDIA RUBBER MANUFACTURERS, SHIPPERS, and the TRADE generally, that they have COMPLETED the ERECTION of WORKS for the MANUFACTURE of ZINC OXIDE, and that they are now producing ZINC WHITE of GREAT EXCELLENCE and PURITY.

Samples and terms shall be forwarded on application.

H. C. FOWLER, Secretary.

29, Westmoreland-street, Dublin, December 10, 1868.

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It is applicable to all practicable heights of fail, giving much greater power rom the water than any other kind of water-wheel.

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backwater.
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Its motion is extremely regular, and, when desired, a governor can be applied

effectively.

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DYNAMITE, OR NOBEL'S PATENT SAFETY BLASTING POWDER.

DYNAMITE is the SAFEST and most POWERFUL BLASTING COMPOUND in general use. Accidents are almost impossible, as it is only exploded by a strong percussion cap. It will not explode from a spark or concussion. If set fire to, it burns quietly and harmlessly away, without smoke or any explosion. Prepared in cartridges for mines and underground workany explosion. Prepared in cartriages with any explosion. Prepared in cartriages with the state of the state

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Picks. Brass and Iron Tubes, Nuts, Bolts, Rivets, &c.

ESTIMATES, DESIGNS, TRACINGS.
Price-book on application.

The Tin Valley Mining Company,

ST. NEOT, NEAR LISKEARD, IN CORNWALL.

CONDUCTED ON THE COST-BOOK SYSTEM.

It is long since a mining adventure so inviting in all respects as this has been introduced to public notice. For a considerable time past the metal markets generally have suffered under great depression, and the especially has been down in price. The hope of an improvement has been long deferred, but it has happily been realised at last, the price of tin having gradually advanced during the last six months, from £45 to £75 per ton. This great improvement and the well-dounded expectation of still further advances in tin have given life and animation to all the Cornish districts in which that metal is found, and miners and shareholders are alike participating in the results—increased labour and increased profits. Very deep mines, that could not be worked at a profit, are beginning aga n to make ample returns, and the falling off in the foreign imports tends to give further firmness to the markets.

The Tin Valley Mine, as we have already intimated, presents almost unparalleled attractions. Referring to the subjoined reports of Captains John Nancarrow, James Rowe, and Richard Southey—whose reputations as mining engineers stand in the very highest rank in the county—for the details of the sett, which is of large size, and is most advantageously situated for all the purposes of mining, we would call especial attention to the important facts that uearly all the machinery and plant necessary for working the mine are in good order; that the outlay for completing the arsenic-houses, for which there is plenty of work already on the ground, will be very small; and that the funds in hand will be ample, not only for this purpose, but for continuing the working and will be weller, but only to the surprose, but for continuing the working and will be weller to pay good dividends, which there is well-grounded reason to say will be within the course of the present year. The cost of working is comparatively small—not more than from £50 to £70 per month—no steam-power being required, and the immense quantities of halvans at surfa

the immense quantities of balvans at surface, containing tin and arsenie, will at once make profits.

In addition to the tin lode, upon which an adit is being driven, and from which, towards the eastern boundary, a considerable quantity of tin has been raised, there are four other lodes, two of which have been partially worked, and produced large quantities of rich copper ore, tin, and arsenie. They are still rich, but are for the present held in reserve, the operations being confined to the tin lode, from which profitable returns of ore will be sooner realised.

In justification of the decided opinion we have of this adventure we refer to the following condensed reports of three men, upon whom all who know anything of mining undertakings will rely. These show that the completeness of the machinery, and other appliances for working, and the inconsiderable amount of expenses necessary to lay open further and large quantities of rich ore ground, with the profits at once realisable by the working of the halvans now at surface, place the undertaking in an almost incomparably favourable position.

EXTRACTS FROM THE REPORTS.

Cumborne, Cornweal.—The sett is about half-a-mile square, and contains five lodes, which run a little north of east and south of west, and underlie south. The stratum is killas. The north idea has been worked to the 80 fm. level, and the main idea to the 110 fm. level. They have both yielded large quantities of rich copper ore, with tin, arsenic, &c., which would, if they had to be worked now, give good profits. The principal object, at the present time, is a large tin idea, 50 fms. south of the main idea. It has been worked in the eastern part of the sett, but only to a depth of 40 fathoms, and to a very limited extent in length. Those who worked it state the return to have been so high as 14 tons of tin per month, and that, although it was worked by the application of steampower, and under great disadvantages, it gave good profits. An adit is being driven castward on this lode from the western part of the sett; it will soon be from 30 to 46 fms. deep, and the lode is likely to be very productive both for tin and arsenic, and to well repay the cost of driving, so that a good mine may be opened without the expense of machinery for pumping. There are thousands of tons of stuff on the mine at surface, containing tin and arsenic, that may be worked to profit, which will help to pay for driving the level, so that the whole of the outlay required will be extremely small. Looking at this mine as a whole, but especially at the lode intended to be worked, its position, and the value of the lodes near it; considering the inexpensive character of the ground, the small

outlay required, and the great probability of success, it is very rarely the case that such chances are presented at so small a risk. JOHN NANCARROW.

camborne, Corneall.—The mine sett is 400 fms. long and 400 fms, wide, and has five known lodes in it. About fifteen years since two of these lodes were extensively wrought on, and produced large quantities of copper, together with some tin. One of the lodes was wrought on 80 fms. deep, the other was wrought on to the 110 fm. level. The water was pumped by a 60-inch cylinder engine. The mine was managed in a loose way, and, for that reason, did not pay any profit. About 50 fms. to the south of the main copper lode they discovered a tin inde. They sank a shaft, 40 fathoms deep, on the lode, and in a short time they raised £15,000 worth of tin from the surface to the 40 fm. level. Tin at that time was not of such value, nor was it thought so much of as now; the price them was £45 per ton; the same quality tin now would bring £75 per ton. Very little exploring tutwork was made on the tin lode; they first followed the tin, took away the best part of the lode, and abandoned it. About 200 fms. west of the old working this same tin lode is to be seen cropping out to surface in the side of a high hill. The parties who have taken the sett have opened on the lode in the side of the hill, about 8 fms. above the river. The lode is regular and well defined; it is 3 ft. wide, and contains some highly promising gossan, large stones of mundie, and some good tin. As far as seen it is a very kindly lode. There are several advantages connected with this mine seldom met with in putting a mine to work; the most important is their having thousands of tons of halvans on the mine that will do to stamp for tin and arsenic. There is a good water-wheel and eight-head stamps, which can be got ready for working in three or four days. A few pounds will put the dressing-floors into good order. The halvans, after it is stamped, contains large quantities of arsenic, worth £4 per ton. The last time the mine worked it was of very little value. A large stream of water is available throughout the year for stamping or pumping, if it should be requir

spects of success as can be seldom met with.

Truro, Cornwall.—Five well-defined lodes run throughout the entire length of the sett, two of which have only been wrought on to a limited extent. On the copper lode little is done below the 62 fm. level. On one of these lodes, called the Tin Lode, from very limited operations, tin to the value of £15,000 was raised and sold, from only 35 fms. from surface. For 150 fms. in length this lode has never been touched, and can now be seen cropping out on the side of the hill, 200 fms. west from where the former workers had such a very rich thi lode; it it 3 ft. wide, improving as it goes down. No steam-power is required, as there is a splendid stream of water of ample power for any machinery that may be required for years, and there is now creeted a new water-wheel and eight-head stamps, all complete, with buddles, and other appliances for dressing tin. It is intended to complete the burning-houses at once; when these are finished, to calcine the orea, and have arsenic-chambers made so as to eatch the arsenic, now selling at from 25 to £4 per ton, the sale of which will be all clear profit to the company. In addition to tin from the underground workings, there are now several thousands of tons of the halvans at surface immediately available for the stamps, and immense burrows that will also pay to be turned over, and from which large quantities will be extracted. At the time these were last worked tin was only £45 per ton; the same is now £75. The geological features are all of the bost character, being killas near granite, intersected by civan and cross courses. Taking all into consideration, the early results to be obtained from these mines, the extent on the course of the tin lode unworked, and the richness of the ore for tin and arsenic, together with the absence of any necessity for costly works of a speculative or experimental charecter, I have no heeltation whatever in saying that it is a bons fittle undertaking, and, with judiclous management, must result in a pro

Messrs. BARTLETT AND CHAPMAN strongly and conscientiously RECOMMEND an INVESTMENT in this UNDERTAKING; and they further advise a PURCHASE BEFORE THE SHARES ADVANCE IN PRICE, as they inevitably must do, independently of the effect of a FURTHER ADVANCE IN THE PRICE OF TIN, which the trade confidently anticipates.

The company is on the Cost-Book System, which ensures to the shareholders the immediate control and management of all proceedings. The mine is divided into 6000 shares, of which they can offer a limited number at £1.

2. Bucklersbury, London, E.C.

WATSON BROTHERS' MINING CIRCULAR

WATSON BROTHERS.

MINING AGENTS, STOCK AND SHARE DEALERS, &c. 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

I, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

MESSRS. WATSON BROTHERS return their most sincere thanks for the great patronage bestowed and confidence reposed in their firm for 25 years, and to assure their friends and clients it will be their carnest endeavour to merit a continuance of both.

Messrs. WATSON BROTHERS have made arrangements for continuing their weekly Circular, which has had a large circulation for many years, to the columns of the Mining Journal, their special reports and remarks upon mines and mining, and state of the share market, will in future appear in this column. In the year 1848, when Cornish mining was almost unknown to the general public, attention was first called to its advantages, when properly conducted, it the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. J. Y. WATSON, F.G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (first series, 1862), "Cornish Nutes" (second series, 1863), "The Progress of Mining," with statistics of the Mining Interest, annually for 21 years, &c., &c. In the Compendium, published in 1843, Mr. WATSON was the first to recommend the system of a "division of small risks in several mines, ensuring success in the aggregate," and Messrs. WATSON BROTHERS have always a selected list on hand. Perhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advice in regard to mines and share dealing than there is at present; and, from the lengthened experience of Messrs. WATSON BROTHERS, they are emboldened to offer, thus publicly, their best services to all connected with mines or the market, as they have for so many years done privately, through the mediu n of their own Circuits.

Messrs. WATSON BROTHERS transact business in the purchase and sale of mining shares, and other securities, payments of calls, receipt and transmission of dividends, obtaining information for clients, and affording advice, to the best of their knowledge and judgme

ways equal the expectations they may have held out in a property so fluctuating as mining. Messrs. WATSON BROTHERS having agents and correspondents in all the mining districts, and an extensive connection among the largest holders of mining property, have the more confidence in tendering their advice on all matters relating to the state and prospects of mines and mining companies, and are able to supply shares in all the best mines at close market prices, free of all charge for commission.

SATURDAY.—Market very quiet, and prices nominal. West Frances, 50 to 52; West Chiverton, 51½ to 52½; Buller, 14 to 16; Providence, 39 to 41; Prince of Wales, 21s. 6d. to 22s. 6d.; East Grenville, 5½ to 6½; Grenville, 50s. to 52s.; Chontales, 25s. to 30s.; Taquaril, 11s. 6d. to 13s. 6d.; General Brazillan,

Mining Gorrespondence.

BRITISH MINES.

BRONFLOYD.—T. Kemp, March 31; Settings for April: New Shaft, North Lode: Six men to continue cross-cutting the lode south from the main driving of the 73, at 168s, per fathom; this cross-cutt is opened 6 ft., and the lode is worth for that length over 3 tons of load ore per fathom; it is a very fine lode. Six men to open on and stope the lode to the west of cross-cut, in the 62, at 80s, per fathom; lode worth about 24, tons of ore per cubic fathom. Eight men to stope under the 52; lode worth quite 1½ ton of ore per cubic fathom. Four men to respon the lode to the west of winze; lode worth 15 cwts. of ore per cubic fathom. Two men to drive the 40 end west, at 55s, per fathom; the lode here is without change. Two men to stope in the back of this level, at 45s, per fathom; lode producing from 10 to 15 cwts. of ore per fathom,—Old Shaft, North Lode: Two men to drive the 52 end east from Barton's cross-cut, on the north part of this lode, at 76s, per fathom; lode poor.—Old Shaft, South Lode: Two men to drive the 52 end east from Barton's cross-cut, on the north part of this lode, at 76s, per fathom; lode poor.—Old Shaft, South Lode: Two men to drive the 52 end east from Barton's cross-cut, on the north part of this lode, at 76s, per fathom; lode poor.—Old Shaft, South Lode: Two men to drive the 2 end west from old shaft, on the south part of this lode, at 178s, per fathom; the lode hore is producing excellent stones of oro, and is looking promising for the lode lore is producing excellent stones of oro, and is looking promising for the lode lore is producing excellent stones of oro, and is looking promising for with a lode and the stop of the stop of

Prince of Wales, 21s. 6d. to 22s. 6d.; East trenvine, or a bown of the to 52s.; Chontales, 22s. to 30s.; Taquaril, 11s. 6d. to 13s. 6d.; General Brazilian, 15s. to 16s.

MONDAY.—Market again quiet. Dealers engaged with settlement. West Ston, 20o to 20s.; Buller, 14 to 16; Uny, 3½ to 3½; Marke Valley, 8½ to 9½; Prince of Wales, 21s. to 23s.; Great Retailack, 2½ to 2½; Drake Walls, 17s. 6d. to 20s.; Mineral Bottom, 3½ to 4; West Frances, 6i to 35; Tincroft, 18 to 18; Taquaril, 11s. 6d. to 15s.; General Brazilian, 15s. to 17s.; Chontales, 22s. to 27s. 6d.; Taquaril, 11s. 6d. to 15s.; General Brazilian, 15s. to 17s.; Chontales, 22s. to 27s. 6d.; Taquaril, 11s. 6d. to 15s.; General Brazilian, 15s. to 17s.; Prince of Wales, 23s. to 27s. 6d.; Taquaril, 11s. 6d. to 15s.; General Brazilian, 15s. to 17s.; Prince of Wales, 23s. to 27s. 6d.; Taquaril, 11s. 6d. to 15s.; General Brazilian, 15s. to 17s.; Prince of Wales, 23s. to 27s. 6d.; West Frances, 6i to 35; Chontales, 23s. to 27s. 6d.; West Basset, 5s. to 37s. 6d.; West Frances, 6i to 35; Chontales, 23s. to 35s. 6d.; West Frances, 6i to 35; Chontales, 23s. to 35s. 6d.; West Frances, 6i to 35; Chontales, 23s. to 35s. 6d.; West Frances, 6i to 35; Great Retailack, 2½ to 2½; New Frances, 6i to 35; Chontales, 23s. to 35s. General Brazilian, 15s. to 17s.; Prince of Wales, 21s. to 23s.; Great Retailack, 2½ to 2½; New Frances, 6i to 35; Chontales, 23s. to 35s. 6d.; West Frances, 6i to 35; Chontales, 23s. to 35s. General Brazilian, 15s. to 17s.; Prince of Wales, 21s. to 23s.; Great Retailack, 2½ to 2½; New Frances, 6i to 35; Chontales, 23s. to 35s. General Brazilian, 15s. to 17s.; Prince of Wales, 21s. to 23s.; Great Retailack, 2½ to 2½; New Frances, 6i to 35; Chontales, 23s. to 35s. Great Retailack, 2½ to 2½; New Frances, 6i to 35; Chontales, 23s. to 35s. Great Retailack, 2½ to 2½; New Frances, 6i to 35; Chontales, 23s. to 35s. Great Retailack, 2½ to 2½; New Frances, 6i to 6½; Prince of Wales, 21s. to 23s.; Great Retailack, 2½ to 2½; New Frances, 6i to 6½; Prince of Wales, 21s.

COUNTE AND GALLENING — To bodge, April : In the Colquite shard about 5 tone of mundic per fathone, with ined and copper; the ground is not as a sea of the although through, the mundic making in more solid, but this may not easy for although through, the mundic notification of the west to particular decision of the control of the west to particular decision of the control of the west to particular the mundic, to include hauling, dressing, and all charges, at 16a, per ton.

CIDDRA—A. Churk, March 31: Since any report of last west to particular control of the control part of the lock, which is the control of the control part of the lock, which is the control of the control part of the lock, which is the control of the control part of the lock, which is the control of the control part of the control part of the control part of the lock with the control of the control part of th

level rise.

EAST WHEAL RUSSELL.—Wm. Richards, April 1: We have cut across the elvan course by shoding at the eastern part of the sett, and find it to be over 20 fms. wide, underlying south. We shall be able to make better progress now, and soon see if there are any more branches or lodes in our limits. The north lode, driving east of the Tunnel, is 21 in. wide, producing quartz, mundic, peach, and a little yellow copper oro. We expect the cross-course in this driving soon, when we anticipate an improvement in the ground and lode. The middle lode, cast of the Tunnel, is 2 ft. wide, containing quartz, flookan, prian, mundic, black oxide, and yellow copper ore, and favourable for progress.

GAWTON COPPER.—G. Rowe, G. Rowe, jun., March 27: In the 82 cross-cut, driving north from King's engine-shaft, we have cut into the lode 10 ft., which

black oxide, and yellow copper ore, and favourable for progress.

GAWTON COPPER.—G. Rowe, G. Rowe, jun., March 27: In the 82 cross-cut, driving north from King's engine-shaft, we have cut into the lode 10 ft., which is composed of spar and mundic, mixed with good quality yellow copper ore, showing a very kindly appearance. The lode in the 70 east is producing stones of ore. The lode in the winze and stope going down below the 70 is worth 8 and 10 tons of ore per fathom. The lode in the 60 east is unproductive, from which we have removed the men for the time being to cross-cut through the south part of the lode in the 70 fathom level west. Our present sampling is computed at 135 tons of copper ore.

GLASGOW CARADON.—W. Taylor, March 30: Caunter Lode: The 78 west is worth from 161, to 121, per fm. The stopes in back of this level are worth 161, per fm. There is not much change to notice in the cross-cuts south at this level; we are pushing them on as fast as possible. On Arrol's lode the tribute pitches are alltide improved, and we are expecting daily to cut this lode by the western cross-course.—Harvey's Lode: In the 65 cast no lode has been taken down since last report, then worth 81, per fm. We are still driving north from the 65 west to intersect the lode. Stopes on this lode continue to turn out their usual quantities of ore. The ore, computed 292 tons, sold on Thursday, realised 12771, 4s. 6d. GEEAT EAST LOVELL.—R. Quentrall, March 31: North Lode: The new shaft is sunk to the 70 fm. level. In consequence of the tin ground taking a more easterly dip, the western end of the shaft has been disordered with some granite, but in the eastern end, where we are now shaking there is a good lode.—South Lode: We are stoping west of the winze from the 60 to the 60 fm. level, where the lode is worth 504, per fathom.

GREAT NORTH DOWNS.—Wm. Rich, Wm. Ennor, March 31: We have the mine in fork, but have not been able to make any great progress in the bottom of Sleggan's, is worth 64, per fathom.

We are eross-cutting throug

lode in the 84 west. The stope in the back of the 84 east is worth 71. per fathom The stopes in the 74, west of Sieggan's, are worth 101. 81., 81., and 71. per fathom. The south lode, in the 64, west of cross-cut, is worth 131. per fathom. The stope behind this end is worth 101. per fathom. The stopes in the 64, east of Butler's, are not quite so productive as formerly. Butler's shaft is not yet dry. We intend to urge on the 75 east, and push out the cross-cut in this level, to intersect the south lode, as soon as the water is drained off. The 48, west of King's, on the tin lode, is worth 71. per fathom. The stope in the back of this level is worth 94, per fathom.

are not quite so productive as formerly. Butler's shaft is not yet dry. We intend to urge on the 75 east, and push out the cross-cut in this level, to intersect the south lode, as soon as the water is drained off. The 48, west of King's, on the tin lode, is worth 71. per fathom. The stope in the back of this level is worth 91. per fathom.

GREAT NORTH LAXEY.—R. Rowe, March 27: I have to-day nothing new to report in the bottom of the 110. The 96 end north is still in a fine looking lode, worth ½ to no flead per fathom. The stopes in the roof are worth about 1 ton of lead per fathom. The lode in the 84 end north continues to look quite as well as reported at the general meeting, and worth about 1 ton of lead per fathom. The 73, lately resumed, and driving towards this discovery, has improved, and now yleiding good stones of lead. We have dressed and on thefloors from 12 to 15 tons of lead.

GREAT RETALLACK.—G. R. Odgers, March 27: The lode in the No. 1 shaft sinking below the 30, has improved to 6 cwts, or 7 cwts. of lead per fathom; and the 40 north, from the No. 2 shaft, has also improved to 5 cwts. of lead per fm. All the other places are looking precisely the same as I stated in my last report.

—G. R. Odgers, J. Harris, April 1: We have no alteration to report on the No. 1 lode.—No. 2 Lode: The lode at the shaft is producing good stones of lead. In the 46 north we have still agood lode, and we hope in a day or two to report a further improvement, as finer indications no one would wish to see. There is no other change.

GREAT SOUTH CHIVERTON.—J. Nancarrow, March 29: The lode in the 20 east looks very promising; we have now driven 40 fathoms east from the 20 east looks very promising; we have now driven 40 fathoms east from the 20 east looks better, and is likely to improve. There is no alteration in the 50 east. The 50 west looks very encouraging; the flookan part, referred to last week, is turning to the south, which is likely soon to result in a change to last part of the stop of the company of the company

If fin, level, from surfrace, the local is a fin, wine, would see per access and well and profited ground.—South Lode: In the need the A. surfrace, the engineers are making good progress in taking out the engine. The masons are also getting on very well in building the calcining-house. On Monday last we set the engine-house to build, at is, 10½d, per perch; il flewise set the carriage of stone, and the control of the contr

vourable indication, and is generally the forerunner of a good lode; it has increased this week fully 60 gallons per minute. The engine and pitwork are in first-class order.

MEW CROW HILL.—A. Kent, T. Trelease, March 30: We are still pushing on the sinking of the engine-shaft with all possible speed; the ground continues good for sinking, and congenial for the production of lead ore.—Wheal Louisa We are still pushing on the 75 cross-cut as fast as possible, and we think at present that we are home very near the south part of the lode, as we have just discovered a flookan similar to that which accompanies this part of the lode, but we have not yet cut into it far enough to discover anything definite, but shall be able to say more about it in a few days.

NEW GREAT CONSOLS.—R. Pryor, R. Trathen, T. Bennetts, March 29: Ellis's Engine-shaft: The lode in the 86, driving west of this, continues much the same as reported on last week. We have commenced to stak the winze below the 74, west of shaft, which will be pushed on in order to communicate with the 86 fm. level for ventilation. No. 1 stope, in the back of the 64, is worth 91, per fathom. No. 2 stope, in back of the 64, is worth 91, per fathom. No. 1 stope, in the back of the 52, is worth 91, per fathom. No. 1 stope, in the back of the 52, is worth 94, per fathom, No. 1 stope, in the back of the 54, is worth 81, per fathom. No. 1 stope, in the back of the 54, is worth 81, per fathom. No. 1 stope, in the back of the 50, is worth 94, per fathom in and No. 2 stope, in the back of the 50, is worth 95, per fathom. No. 1 stope, in the back of the 64 like in the back of the 65 like in the back of t

atnom. TRELEIGH.—S. Michell, April 1: There is no change in the new shaft, shiking under the 78, for the week; it continues to yield stones of ore; set on Saturday last to six men, at 181. per fathom. The lode in the 78 cast is just the same as for some time past, worth 4 tons of ore per fathom; this was also set to six men, at 81. per fathom. Three stopes in the back of this level, by two hauds in each bargain, at 31. 10s. per fathom, the stopes averaging 2½ tons of ore per fathom each. The rise in the back of the 78 west, against the winze, below the 70, is worth 12½ tons of ore per fathom; set to four men, at 71. per

fathom; the same to be carried 9 ft. long. The end to drive west by two men, at 6l. per fathom; the lode is worth 2 tons of ore per fathom. Two stopes in the back of the 70, west of the cross-course, by two men, each at 3l., worth in the aggregate 2½ tons of ore per fathom. A cross cut towards the south part of the lode at the 70, west of new shaft, by two men; we calculate 6 ft. more will reach it, and will be accomplished in about a fortnight from this time. NEW WHEAL TOWAN.—R. Pryor, March 31: The lode at the stopes in back of the adit is at this time a little disordered by a cross head or slide, and not quite so good as when last reported upon, but the falling off, I think, is only temporary.

mother to good as when last reported upon, but the failing off, it bink, is only

NORTH GLOTTY.—J. Virtual and Son, W. Thomas, Jun., April 1: In aisting
under the ISA west of Petherick's shaft, the lode is worth 201, per fathom for
tile. In the lowest, fina, beind the abressed with which the lose is worth 182,
the per shaft of the per shaft of

of any part of the inite since I has advised you.
PHKNOSS OF WALES.—P, word, 6, Rickard, March 31: During the past PHKNOSS OF WALES.—P, which, we are now in a position to go on with the sinking more rayidly, and every effort will be used no our part to get down the required depth for a 35 included as quick as possible. In the 50 cross-cut north, driving towards Vosper's ground and present is somewhat harder, consequently our proyects is not quite paged.
PROSPER UNITED—John Nicholis March 30: The Grailon lode, having a ground and present is somewhat harder, consequently our proyects is not quite paged.
PROSPER UNITED—John Nicholis March 30: The Grailon lode, having a ground and present is somewhat harder, consequently our proyects in our quite paged.
PROSPER UNITED—John Nicholis March 30: The Grailon lode, having a ground and present is somewhat harder, consequently our proyects in our ground and present is somewhat harder to be consequently of the latter of the state of the proyect of the circumstance of the consequently dependently and the proyect of the circumstance o

wide, worth for lead and copper ore 91, per fathom. In the 50 west the lode is small, containing carbonate of lime, with spots of lead and copper, but not sufficient to value; we look for an improvement at this point shortly; set to four men, at 61, 10s, per fathom. To stope the back over this level, west from the winze, by six men, at 80s, per fathom; the lode is 20f, ft. wide, worth for lead and copper ore, 134, per fathom. To stope the back over this level, east from the winze, by four men, at 80s, per fathom; the lode is 2 ft. wide, worth for lead and copper ore 104, per fathom. To stope the back over the 40 west by four men, at 75s, per fathom; the lode is 2 ft. wide, worth for lead and copper ore 104, per fathom. The shallow level to drive east by two men, at 64, 17s, per fathom; the lode is 2 ft. wide, worth for lead and copper ore 104, per fathom. The shallow level to drive east by two men, at 64, 17s, per fathom; the lode is 1 ft. wide, containing sulphur and spots of copper. The machinery is in good course of working.

SOUTH GREAT WORK.—Samuel J. Reed, E. Chegwin, March 31: In the 17, driving west from cross-cut, Wheal Giant lode is improving in size and appearance, composed chiefly of quartz, chlorite, and mundie, worth 64, per fathom for tin. We have yet to drive 4 fms. to reach a winze sunk below the shallow addt, in which there is a rich lode of tin, but cannot at present be sunk, on account of water. We are expecting further improvements in this lode shortly. The men from the south lode are put to sink the new shalf for ventilation and discharge of staff.

water. We are expecting further improvements in this lode shortly. The men from the south lode are put to sink the new shaft for ventilation and discharge of stuff.

SOUTH HERODSFOOT,—W. Goldsworthy, April 1: The ground in the crossent in the 109 fm. level is easier for driving, and of a most promising character, being a beautiful light blue killas, and letting out pretty much water.

SOUTH WHEAL GRENVILLE.—G. R. Odgers, W. Bonnetts, March 27: We have to-day set the 42 to drivé both east and west of the cross-cut by ten men, at 12l. per fm.; lode 2½ ft. wide, of quartz, &c., having a strong masterly appearance, but the ground is very hard.

ST. JUST AMAIGAMATED.—R. Pryor, Thomas Gundry, Richard Wearne, March 30: The tribute bargains throughout the mines are much the same as last reported. Saturday next being our pay and setting, a full report shall be sent. SUMMER HILL.—Last Saturday being our setting-day, I set the level driving from Hale's shaft towards Wynne's shaft to six men to drive for this month, at 20s. per yard, the men to pay all costs. The flat in the present end is dipping as good bit to the south, although the surface above it is rising in that direction, which is an unusual thing. I, however, consider it to be a favourable indication of our meeting with ore when we get to the bottom of the drop, which at our present rate of driving it think will not take us long to do. TAMAR VALLEY.—J. Goldsworthy, April 1: in the 57 fm. level cross-cut, driving east of Weston's englue-shaft, fair progress is being made. In the 57 fm. level cross-cut, driving east of Weston's englue-shaft, fair progress is being made. In the 57 fm. level cross-cut, driving east of Weston's englue-shaft, fair progress is being made. In the 57 fm. level cross-cut, the men to a speedy improvement. The laying of the tram-road in the 27 fm. the 47 fm. level south the 10de 1s 4 ft. wide, and producing saving work, with indications of a speedy improvement. The laying of the tram-road in the 27 fm. the surface work, with the dressing, is

indications of a speedy improvement. The laying of the train-road in the 27 fm. level south is being rapidly completed. The several tribute pitches throughout the mine are looking well. The surface work, with the dressing, is progressing satisfactorily.

TREKEW MINE.—March 29: We have cut through the lode in the 32 fm. level cross-cut; it is about 3 ft. wide, composed of spar, mundic, and prian, with plenty of clay. The ground is very much changed from the level over—it is more soft and speedy for driving through, and is letting out a large quantity of water; it has drained the 20 fm. level nearly dry, and we think it will be quite dry in a few days, when, no doubt, the water will be very much less in the 32 fm. level. We opened 1 fm. 5 ft. on the lode in this level, and have now set the end to drive south in the lode by six men, for the month, at 34, 10s. per fathom, and, but for so much water, it could be driven for much less; although the lode is poor, it is far more kindly than in the 20 fm. level. The shaft is about 3 fms. below the 32, and we should like to continue the sinking, but the weather being so very wet, which has given us a great deal of water, we think it best to suspend the sinking till the dry weather sets in a little. The 20 is in a little stiffer killas; there were 5 fms. 4 ft. driven last month, and it is now let to six men, at 44, per fathom. The 20 north is in a great lode; we intended to drive on forther in killas, but a branch from the east prevented us doing so; the lode is composed of peach and mundic, with strings of lead. We have put the men to drive east to get through the lode for the purpose of driving on in the killas. We want to hasten on this end to the footway shaft, to get it through as soon as we can to give air to the bottom levels. We have put in a good balance-bot to surface, and it is working well. We shall not require any more materials for the mine more than for the regular development of the mine, having the bob in its place and pitwork enough to sink another lift.

— W. J. Cooke, April 1: St. David's Lode, No. 2 Mine: The lode in the end driving east towards the great cross-course is at present about 5 feet wide, the quartz is improving in appearance. The sinking of No. 6 shaft has been resumed, at starting it was in rough quartz, but is gradually improving, it impedes the transport of ore through the mine, and it will be the middle of next week before the line can be replaced. The 7 fm. level during the pastweck has yielded some stones of quartz showing visible gold; there is about 40 tens of ore in the bunning under this level, which will be thrown down on Saturday, and from which I hope to get some visible gold. The stamps are stopped, and the sand for amalgamation will be worked over by Tuesday. All other work progresses satisfactorily.

In lope to get some visible gold. The stamps are stopped, and the sand for amalgamation will be worked over by Tuesday. All other work progresses satisfactorily.

WEST GODOLPHIN.—J. Vivian and Son, April 1: Caunter Lode: The northwestern half of the Pressure shaft, sliking under the lo, is worth 25t, per fm., and the south-eastern part 5t, per fathom, making the shaft altogether worth 30t, per fathom. In the 10, driving south-east of Pressure shaft, the lode is 3 ft, wide, and worth 5t, per fathom; in the same level, driving north-west, the lode is worth 4t, per fathom.—South Hope Lode: In the winze shiking under the middle adit level, north-west of the Pressure shaft, the lode is worth for the length of the winze of ft.) 18t, per fathom.—Hope Lode: The water is going down regularly, but we have not yet been able to resume operations at the bottom, or 35 fm. level.

WEST GGEAT WORK.—S. J. Reed, March 31: At the flat-rod shaft the men are engaged fixing new drawing lift from 40 to be 50; next week we shall begin to shik below the 50. In the 40, west from said shaft, on the Great North lode, the lode is 2 feet wide, producing saving work for the stamps. The 30, driving west, is now under Harvey's shaft, where the lode is 7 feet wide, worth 13t, per fathom; driving at 80s. per fathom. Harvey's shaft which is now being sunk below the 20, is worth for the 10t, per fathom. This level driving west is in favour able ground, and worth 6t, per fathom. In the adit driving east towards Barn shaft, the lode is yielding saving work for the stamps. We are working 24 tribute pitches at tributes, varying from 4s, 6d. to 15s. in 1t.

WEST TOLGUS.—March 31: We have drained the water 3 fms, below the 50 at Taylor's engine-shaft. Our sumpnen are now engaged in fixing lift temporarily at this point, and to-morrow, some part of the day, we hope to drop the other lift. The ground at Richards's shaft is a stiff killas. The men are getting on pretty well with the sinking. The lode has not been taken down sinco our last report.

ir last report. WEST PRINCE OF WALES.—W. C. Cock, March 30: I set the north engine-

same as we have before reported to you—the ground is very like that which accompanies the lode at South Condurrow. The 80 west, by two men. at 31. 15s. per fathom; lode 2ft. wide, and worth 7l. per fm. The 66 west, to four men, at 8l. per fm.; lode 3 ft. wide, and worth 8l. to 10l. per fm. for tin.—North Shaft: The 90 east, by four men, at 4l. per fm., and 12s. in 1l. fortin; lode worth 8l. for fm. The 6s west, to four men, at 6l. per fm.; lode 2 ft. wide, producing a little tin. The 66 east, to two men, at 42s. per fm.; lode 1 ft. wide, and worth 8l. per fm. The 6e west, to four men, at 42s. per fm.; lode 1 ft. wide, and worth 8l. per fm. We have to -day set 39 pitches to 95 men, at an average tribute of 11s. 2d. in 1l., at 55l. per ton for tin.

WHEAL KITTY (St. Agnes).—W. Polkinghorne, S. Davey, March 30: In the 82. driving west of Holgate's shaft, the lode is 18 in. wide, and worth for tin 7l. per fathom.—New Shaft. Pryor's Lode: In this shaft, sinking below the 9l. nothing worthy of remark has taken place during the past week. In the 94, driving west of shaft, the lode is 2 ft. wide, and worth for tin 11l. per fathom. In the 82, driving west of shaft, the lode is 2 ft. wide, and worth for tin 11l. per fm. In the 82, driving west of shaft, the lode is 2 ft. wide, and worth for tin 11l. per fm. In the 82, driving ast of shaft, the lode is poor. The lode in the winze sinking below the 82, west of shaft, the lode is worth for tin 11l. per fm. In the 82, driving north of shaft, the lode is worth for the 10de in the winze sinking below the 82, west of shaft, the lode is worth for the 10de in the winze sinking below the 82, west of shaft, the lode is worth for tin 10d. per fathom. In the 44, driving east of cross-cut, north of Pryor's, the branch is producing good saving work.

WHEAL LIMBEY ELORENCE.—W. Verran, W. Johns, March 31: In the 25,

82, driving north of shaft, the lode is worth for tin 101, per fathom. In the 44, driving east of cross-cut, north of Pryor's, the branch is producing good saving work.

WHEAL MARY FLORENCE.—W. Verran, W. Johns, March 31: In the 25, east of Saw's shaft, we are cutting through the lode, which is composed of capel, quartz, and stones of yellow copper ore—a very strong, healthy-looking lode, from which the water is flowing very freely, and we have reason to expect a great improvement here very shortly. In the same level west the lode is made up principally of peach, capel, and mundic; a much more promising lode than in the level above, immediately over this point; and we look forward to good results in this level as we get further west towards Holmbush great cross-course, and parallel with the recent discovery of rich ore in Kelly Bray Mine. In the 15, east of shaft, we have commenced taking down. A stope in the back of this level will produce from 2 to 3 tons of copper ore per fathom. In the same level west we are still in disordered ground, not having yet got under the productive ground driven through in the deep adit level, but hope to do so shortly, when we anticipate a very great improvement in the lode. We anticipate opening up a long run of productive ground both east and west of the shaft, and hope, ere long, to increase our returns. We have lately sold a parcel of coppery mundic, and are now in the way of dressing a parcel of copper ore for sampling, to be sold at the public ticketing.

WHEAL TRELAWNY.—W. Johns, T. Grenfell, J. Pryor, March 29: No particular change has taken place in either of our utwork ends since our report sent you for the last general meeting held on March 16. A stope or pitch in the back of the 196, south of Smith's shaft, is still looking very well, worth 201, be fathom. The sinking of Trelawny's and Chippendale's shafts, as well as the winzes sinking by the side of the lode, are going on as fast as the nature of the ground will admit. We shall sample to-morrow (Tuesday) 77 tons (co

GOLD MINING IN MERIONETHSHIRE. - Some experiments are about to be made in the Mawddach Valley by a gentleman who has had long experience in Australia and New Zealand. On account of the large water-power at command, it is understood that Gwynfynydd large water-power at command, it is understood that Gwynfynydd has been fixed upon as the best ground for commencing operations. The mode of washing the ore (for which a patent was taken out in Sydney) is simple, but very ingenious, and additional details will very shortly be laid before the public. Should the experiments prove successful, it is proposed to established a company in order to carry out the crushings and washings on a very extensive scale.

The Tin Valley Mine seems to be running a race with some of the best Cornish mines, that have been long in the course, to reach the Dividend List. The adit that is being driven from the western side of the hill has reached the lode which has produced large quantities of tin at a shallow depth, at the east side of the sett, and it will, judging from present appearances, soon get into the rich deposit, and make good profits. The cost of working is almost ridiculously small, the drivings of the adit being almost the only work, except the dressing of the halvans at surface, which will at once produce a profit. The mine will, no doubt, be one of the prizes of the year, as there is no probability of a reduction in the price of tin.

FRONTINO AND BOLIVIA.—The advices just to hand from New Granada, under date Feb. 15, show that the satisfactory intelligence received last month has been more than confirmed by increased remunerative results, inasmuch as the produce for January amounts to nearly 600 ozs. of gold, which is a substantial increase upon the returns for December. The profit for January amounts to 4504, as against 2544, the previous month. These returns have been realised in the face of two adverse influences, which, however, only operate at this particular season of the year. December and January have hitherto been the most unsatisfactory months of the whole year, which explains the statement made by Mr. C. S. de Grieff, "that taking into consideration the scarcity of water, the returns for the month cannot but be considered as favourable," Mr. Rouch (the superintendent) adds, "that the result of the month's working of the mines would have been considerably greater were it not for the great mines would have been considerably greater were it not for the great scarcity of water just now, and the absence of the men during the Christmas season." Too much praise cannot be accorded to the ex-cutive, and especially to Mr. Rouch, for having so successfully car-ried this enterprise through considerable difficulties into its present encouraging position,

BRAGANZA GOLD MINING COMPANY .- Looking at the great advantages possessed by the Braganza Company's mine (which are not hypothetical, as the mine has already been worked profitably on a comparatively small scale by former proprietors), and looking on a comparatively small scale by former proprietors), and looking also at the economy with which gold mines can now be worked, compared with the heavy outlay of the pioneer companies, it is not surprising that this is a popular investment with capitalists, and that the shares are being rapidly taken up. The advantages referred to are so important that we give them, as described in the prospectus, for the information of our readers:—

In addition to the size and richness of the lode, and to its being of the rock formation, which gives regular and equable produce, the estate comprises a very extensive range of auriferous alluvial deposits, and is, moreover, most favourably situated in the following important respects:—

1.—It stands high and open, and is remarkably healthy, while the lay of the land and position of the mountain are peculiarly adapted for easy and inexpensive mining, and for bringing the gold ore by tram-cars from the mine to the crushing-mills.

There will be no underground works required for excavating the ores for 2.—There will be no underground works required for extending the costs for many years to come, as "it is all an open working or cutting." No pumping machinery or wooden supports will, therefore, be needed, and no expense will have to be incurred for fuel, oil, candies, &c., while very much larger quantities of ore can be extracted within a given time, and at a much smaller cost, from an open cutting or quarry, than from underground mining.

3.—There is an abundant supply of water, which can be increased to any required amount in a short time, and for a small outlay; and there is sufficient fall to the stamps to erect a number of water-wheels, and water enough to work them.

fall to the stamps to erect a number of water-wheels, and water onough to work them.

4.—The supplies of both labour and provisions are abundant and cheap, the mine being close to the fertile valley of Itabira do Campo, and in near proximity to the villagos of Parapeba, Itabira, and Gonçalo Sabuaro. All the provisions which go to the celebrated Morro Velho Mine of the St. John del Rey Company pass the Morro Tabae Mine, along the Cata Branca road.

These four important requisites being undoubtedly possessed in an eminent degree by the Braganza Company's Mine the development of the property will be carried on under the most favourable circumstances. The quality of the gold yielded is remarkably pure, being from 23% to 24% carats, which is superior to that of the Cata Branca and Morro Velho Mines. Six bags of the ore, taken from different parts of the lode, have been assayed by Messrs, Johnson Matthey, and Co., and yielded an average of rather more than 22 ozs. of gold to each ton of ore, which would be equal to more than 70, per ton.

These assays fully confirm Capt. Williams's statement of the great richness in gold of the Braganza Company's ores.—" In all my travels through South America and Australia I never saw so large blocks of quarts from any lode so rich in gold as those from this mine." Two levels have already been driven by the former proprietors, each about 25 fathoms long, as shown in the section to be seen at the office. These will now be completed, and stamps and reducing apparatus will be erected forthwith. In addition to the large and rich quartz lode, whence the above six bags of ore were taken, the estate also comprises a very extensive range of alluvial deposits, estimated by Capt. Williams (ass renove paratus will be erected forthwith. In addition to the large and rich quartz lode, whence the above six bags of ore were taken, the estate also comprises a very excensive range of alluvial deposits, estimated by Capt. Williams (see report) as "enough to last for the next century," and which, judging from the specimens at surface, and from his experience of the Cata Branca washings, he expects will be very productive; and as alluvial deposits require only to be dug up and washed, the gold can be extracted from them quickly, and at a very trifling cost. It is well known to Australian and Californian gold miners that where a sufficient supply of water can be had even I dwt. of gold per ton will yield a profit. The property thus being so favourably circumstanced for easy and quick development, and much preliminary work having been aiready done, returns of gold may be realised almost immediately.

In illustration of the comparatively small cost at which gold mining can now be carried on, as compared with the expenditure of the earlier

mines, and of developing them, and the annual percentage of profit, are in an inverse ratio with the cost and profit of the mine most recently put to work—that of the Don Pedro Company, which has reoaid its capital more than twice over within a little over two years It should also be noted that the properties worked by the above three companies are pronounced by the best authorities to have ample companies are pronounced by the best authorities to have ample riches in them yet. The Imperial Brazilian Company's mine, Gongo Soco, has been recently purchased for the Rossa Grande Company, under the advice of Capt. Thos. Treloar, who gives it as his opinion that "Gongo Soco is not exhausted yet;" and there can be no doubt but that the St. John del Rey Company's mine, Morro Velho, will be quite as productive (and, probably, more so) than ever, as soon as the two new vertical shafts are finished; while of the Don Pedro Company's mine, Capt. Treloar says "it is yet only in its infancy." Look-ing at these facts, it is not to be wondered at that well chosen and well managed Brazilian gold mines are popular investments.

The Mining Market; Phices of Metals, Ores, &c.

METAL MARKET-LONDON, APRIL 2, 1869.

COPPER. & s. d. & s. d.	IRON. Per ton.
Best selectedp. ton 78 0 0- 79 0 0	Bars Welsh, in London 6 10 0-6 15 0
Tough cake and tile 76 0 0	Ditto, to arrive 6 10 0- 6 12 0
Sheathing & sheets. 79 0 0-80 0 0	Nail rods 7 2 6- 7 5 0
Bolts 81 0 0	" Staffd. in London 7 12 6-8 10 0
Bottoms 82 0 0- 83 0 0	Bars ditto 7 10 0- 9 10 0
Old (Exchange) 65 0 0- 70 0 0	Hoops ditto 8 0 0- 9 15 0
Burra Burra 81 0 0	Sheets, single 9 0 0-11 0 0
Wireper lb. 0 1 0 - 0 1 01/2	Pig No. 1, in Wales 3 15 0-4 5 0
Tubes 0 0 11½- 1 0	Refined metal, ditto 4 0 0- 5 0 0
BRASS. Per lb.	Bars, common ditto. 6 0 0
	Do. mrch. Tyneor Tees 6 10 0-
Sheetsper lb. 9d	Do., railway, in Wales 6 0 0-
Wire , 81/4d81/4d.	Do., Swed. in London. 10 0 0-10 5 0
Tubes , 101/2d111/2d.	To arrive 5 0
Yellow Metal Sheath.p. lb. 7d	Pig, No. 1, in Clyde. 2 13 6-3 0 6
Sheets , 63/d	Do. f.o.b. Tyne or Tees 2 9 6-
SPELTER. Per ton.	
Foreign on the spot£20 15 0-21 0 0	
, to arrive 21 0 0	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
******	Indian Charcoal Pigs,
In sheets £27 0 0-	in London, p. ton 7 0 0- 7 10 0
In sheets £27 0 0- —	STEEL. Per ton.
TIN.	
English blocks	Swed., in kegs(rolled)
Do., bars (in barrels)128 0 0	,, (hammered) 15 5 0-15 10 0
Do., refined133 0 0	Ditto, in faggots16 0 0
Banca£142 0 0-143 0 0	English, spring17 0 0-23 0 0
Straits138 0 0	QUICKSILVER (p. bottle) 6 17 0
TIN-PLATES.* Per box.	LEAD. Per ton.
IC Charcoal, 1st qua. 1 8 0- 1 10 0	English Pig, com19 10 0
IX Ditto, 1st quality 1 14 0- 1 16 0	Ditto, LB
IC Ditto, 2d quality 1 7 0-1 8 0	Ditto, WB20 15 0
IX Ditto, 2d quality 1 13 0- 1 14 0	Ditto, sheet20 5 0-
IC Coke 1 4 6-1 5 0	Ditto, red lead21 0 0- —
IX Ditto 1 10 6- 1 11 0	Ditto, white27 0 0-30 0 0
Canada plates, p.ton 13 10 0	Ditto, patent shot22 10 0-23 0 0
Ditto, at works12 10 0-	
Ditto, at works 10 0-	Spanish18 17 6-19 0 0

* At the works, 1s. to 1s. 6d. per box less.

REMARKS.—The Metal Market during the former part of the week has been affected, as is usually the case, by the Easter holidays, which caused business to become slack for the time; but now that they have passed, it seems likely to resume its previous activity; indeed, from all appearances, there is every probability that it will become more animated, and that we shall soon enter upon a course of much proanimated, and that we shall soon enter upon a course of much prosperity in the metal trade. There now seems every disposition on the part of buyers to enter freely into operations, and we look for great extension in transactions in the trade generally. Prices in some instances have advanced very considerably, and the tendency in one particular metal is still upward; indeed, prices have not reached the point they are now at for a very long period; and there is no question that parties who have entered into speculative transactions in this particular metal will be sure to come out with large profits; and this rapid advance in prices is sure to lead to more operations. and this rapid advance in prices is sure to come out with large profits; and this rapid advance in prices is sure to lead to more operations of this kind being entered into; and we may, consequently, look for very considerable activity in this department of the trade. The directors of the Bank of England, at their weekly meeting, on Thursday, advanced the rate of discount from 3 per cent., at which it had stood since the beginning of December, to 4 per cent. This movement was hardly expected, although an advance had been looked for a week or two ago; however, this advance will have no prejudicial effect upon legitimate business, and, perhaps, may not even check speculative operations, as 4 per cent. is not a high rate of interest. The reason, probably, of the present rise is to check any large with-

speculative operations, as 4 per cent, is not a high rate of interest. The reason, probably, of the present rise is to check any large with drawals of gold from the country, which might have taken place in consequence of the exchange in America being favourable for such purposes, and also in anticipation of any foreign loans coming out; and, no doubt, it will be found that this step is justified by the result. COPPER.—The advices received from Chili during the week are considered more favourable than the previous telegraphic information, so far as that the actual shipments were expected to be below the amount of the charters. Holders are, consequently, less willing to sell at previous terms. The demand is now somewhat more active, and business has been done in Chili bars at 711. cash on the spot, and 721. for arrival. Burra is quoted at 821., and Wallaroo at 811. 10s. cash.

IRON.—In Staffordshire there is an improvement in the demand. Buyers are making more enquiries, and the works are somewhat better off for orders, especially for hoops and sheets. In Welsh business keeps without any material change, but it is expected that new engagements will soon be entered into. A number of vessels are now taking in cargoes for rails for the United States and Russia, and by the time they have all cleared the stocks will have almost disappeared. Quotations for railway iron are well maintained, and strong hopes are entertained that as the year advances prices will gradually increased firmness in the market. For Swedish iron the demand is not quite so active. In Scotch pig-iron the market was dull during the former part of the week, but has since rather improved, a better demand having sprung up, the last price received from Glasgow being 52s. 9d. cash.

Lead.—Business still continues active, and sellers are very firm in

52s. 9d. cash. LEAD .- Business still continues active, and sellers are very firm in their prices: good soft English is now quoted 191.10s.; LB, 191. 15s.; and WB, 201. 15s.

TIN.—The market for foreign has been in a most animated condi-118.—The market for foreign has been in a most animated condition during the week. On Thursday the Dutch Trading Company's sale of Banca took place at Amsterdam, when the whole quantity of 49,500 slabs was sold at 82½ fls., equal to 142% to 143% here. A reduction of 30 per cent. had to be made on the purchases, the orders exceeding the quantity for sale. Before the sale Straits had been saled at 193% each but appearantly the virea providers and sales. exceeding the quantity for sale. Before the sale Straits had been sold at 1321 cash, but subsequently the price rapidly rose, and a considerable business has been done up to 1384, cash, with every prospect of further advances, the market being in an excited condition. In Holland the stock of Banca in warrants on March 31 was 60,372 against 174,458 slabs at the same time last year : a rivals towards the next 70,507 slabs, against 11,826 slabs at the same time last year.

SPELTER continues rather inactive, the quotation for parcels on the spot being 20l. 15s. to 21l. The stock in London on March 31 was 1337 tons, being an increase of 225 tons during the month.

TIN-PLATES.—Makers are well supplied with orders at the advanced prices, and there is not much doubt that the enhanced value of tin will cause a further advance in tin-plates ere long.

STEEL in rather better demand. QUICKSILVER, -Not much doing.

The Property thus been so tavourably elementative and quick development, and much preliminary work having been already done, required and property thus been streamy dors, and quick development, and much preliminary work having been already done, and quick development, and much preliminary work having been already done, and gold may be realised almost immediately.

The Property thus been streamy done, and gold may be realised almost immediately.

The property thus been already done, required to the comparatively small cost at which gold mining can now be earlied on, as compared with the expenditure of the earlier companies, the following figures are given, and show a progressive companies, the following figures are given, and show a progressive dimprovement most encouraging to shareholders in well chosen and well managed modern enterprises of this kind.

Well managed modern enterprises of this kind.

The property thus been stready done, the property of the stream of the continues unabated. The actual business reported, however, this week is for most kinds of iron here. The hardening tendency in the price of railway bars continues unabated. The actual business reported, however, this week is for most kinds of iron here. The hardening tendency in the price of railway bars continues unabated. The actual business reported, however, this week is for most kinds of iron here. The hardening tendency in the price of railway bars continues unabated. The actual business reported, however, this week is firm to most kinds of iron actual variety of the stream of the study of the stream's the stream's continues unabated. The actual business reported, however, this week is firm of the stream's continues unabated. The actual business reported, however, this week is firm of the stream's continues unabated. The actual business reported, however, this week is firm of the stream's continues unabated. The actual business reported, however, this week is firm of the stream's continues unabated. The actual business reported, however, th

ust inevitably be in favour of better prices in May or June. The greases in Wales and elsewhere evidently auticipate this favourable state of rall houses in Wales and elsewhere evidently atticipate this favourable state of things, or they would not have refused contracts for good specifications at present rates. The action of the board of directors in Threadneedle-street, on Thursday, took all parties by surprise, but we see no reason why this should in any way interfere with the iron trade; 4 per cent. is by no means a high rate of interest for money, and as the large purchases of American Securities bought here of late demand commensurate amounts to pay for them in Wall-street, gold has been forwarded in satisfaction, yielding a very large profit to the shippers, owing to the favourable state of the Exchanges there for gold payments. This sthe cause of the advance of the rate of interest here, and the only effect it will have here will be to check the speculation which has lately been going on in 5s., 20s., and other American securities. nere will be to check the specula and other American securities.

THE COPPER TRADE.—Messrs. Pitcairn-Campbell and Co. (Liver-THE COPPER TRADE.—Messrs. Piteairn-Campbell and Co. (Liverpool).—The tone of the market does not Improve, and whilst English smelters are complaining of inactivity, the demand for foreign on the spot is dull at quotations. Comparatively high prices are paid for Chill bars for distant arrival. Quotations are 70t. 10s. to 71t. for Chill bars, 75t. to 76t. for ingots, 4s. 3d. for Chill ore and regulus, 15s. for Barilla. Business transacted during the fort-night comprises, on the spot here, 455 tons bars, at 70t. to 70t. 15s. To arrive here, 450 tons bars, at 71t. to 72t. 10s.; to arrive at Swansea, 180 tons ore, at 14s. 3d., and 500 tons regulus, at 14s. 1½d. Arrivals here during the fortnight, from West Coast, S.A.:—Warwickshire, from Tome, 455 tons regulus; Mexican, from Colon, 10 tons bars, 138 tons Barilla: Santa Rosa, from Valparalso, 42 tons bars. At Swansea, Minero, from Coquimbo, 700 tons regulus.

Stocks of copper (Chillan and Bolivian) in first and second hands, likely to be available, are— Ores. Regulus. Bars. Ingots. Barilla. Liverpool 1125 650 5300 780 120 Swansea 2334 4030 1259 68 252

Total 3459 4680 6559 848 372 presenting about 10,450 tons fine copper, against 7800 tons March 31, 1868; 0 tons March 31, 1867, 10,700 tons March 31, 1866.

Messrs. Vivian, Younger, and Bond—Transactions have been limited scale, though the market has become harder, and the few operations which have been reported have all been at full quotations. About 500 tons of Chill bars changed hands at 711, cash, and 721, to arrive; these rates are now rather under the market, there being buyers yesterday for considerable quantities at such limits. Fine foreign copper is scarce, and orders at current rates are difficult of execution. In fact, holders generally are firm, and quite disposed to wait and take their chance later on. Telegrams have been received from Chill this day advising charters of copper produce for the fortnight ending March 2, amounting to 1350 tons fine in ores and regulas, and 1300 tons in bars and ingots; as, however, the advices received by letter on the 29th ult. stated that some of the charterers of the ships previously advised found greater difficulty in fulfilling their engagements, and in some cases were even trying to cancel their charters, or to exchange for other produce, it is pretty clear that the quantity now advised is owing more to the low freight (which for bars is only 11. 185.), and the good news received from England, than from any excess of production over previous years. The advices which will have been received in Chill later than the date of this last telegram will be by no means encouraging, and we may now confidently look for small quantities for some considerable time to come. With reference to this question of charters, however, we may mention that really this point is no sort of guide as to the production of copper in Chill, and should not inhuence the price at all. For instance, Chill exported during the last five years the following in fine copper:—1864, 47,500 tons; 1855, 48,372 tons; 1865, 44,820 tons; 1867, 44,654 tons; and 1868, 43,755 tons. Yet last year, during the three months of May, June, and July, the total charters amounted to 17,731 tons, or at the rate of 70,024 tons per annum. The advices mounted to the former of Messrs. Vivian, Younger, and Bond-Transactions have been

ber, January, and February 16,500 tons, or equal to 66,000 tons per annum, while we are assured on all sides that the production in Chill has not increased.

Messrs, James and Shakspeare—Ore and regulus are steady, with buyers of the former, if of good produce, at 14s, 3d,, and no sellers except at higher rates; the latter sort is obtainable at said price, but smelters do not seem inclined to give over 14s, per unit. In Chill bars about 500 tons sold since Thursday at 71l, for cash, 72l, to 72l, 10s, for "arrival" parcels, the business being pretty equally divided between the two modes of purchase; it would seem, however, from the tone of the market, that holders are inclined to wait for better prices, and though the stocks of this description supposed to be available (?) are estimated at about 6500 tons, yet scarcely one-tenth of that quantity could be purchased without treasting a rise of fully 3 per cent. on present value. Ingots remain without transactions, the offers for this kind being from 10s, to 20s, per ton below asking prices. On March 29 the Chill mail arrived, giving full particulars of the charters for the first half of February, and it appears that the total is about 300 tons less of pure copper than advised by telegram on the 17th, the details being:—For England about 300 tons in bars, 1070 in ores and regulus, 675 tons bars for Harve, and 45 tons for Hamburgh, the total of all being about 2100 tons. Some advices also stated that out of the late heavy charters a portion would have to be cancelled, the charterers being unable to provide the stuff to meet their engagements. In Australian some small quantities of Burra are reported at 811. 10s. and 821., and one trilling lot of Wallaroo at the last quotation, the sales in all instances being from second hands; it would, however, be impossible to execute any important orders except at a good advance on those rates. Rather more enquiry is experienced for English, and orders for manufactured for Russia have lately been given out.

Business in the MINING SHARE MARKET has been interrupted since our last by the Easter holidays, and by the settlement of the fort-nightly account, which commenced on Saturday, the 27th, and ended on Wednesday. Notwithstanding this, however, there has been a good business done in East Grenville, Wheal Grenville, West Basset, West Frances, Great Retallack, West Chiverton, Mineral Bottom, Great Vor, Prince of Wales, Providence Mines, West Seton, Wheal Buller, Wheal Uny, Great North Laxey, Cook's Kitchen, Great South Tolgus, Tingroff and others. Tincroft, and others.

On Friday, after the Banca tin sale became known, there was a good demand for Cook's Kitchen, Great Vor, Tincroft, and other tin

mines at advanced prices.

The standard for copper ores rose 13 per ton on Thursday; and the price of the Banca tin sold was equal to 1447, per ton, delivered in London.

in London.

Great Laxey, 19 to 19½, ex div.; the accounts preparatory to the half-yearly meeting, to be held at the London Tavern, on the 14th, have just been published, and show a general balance of assets over liabilities of 19,1761.16s. 4d. Of this the new capital account shows 11,0511.19s.6d. The returns for six months were—Lead ore, 27,0771.10s.; blende, 59481. 4s. 1d.; copper, 9371. 10s.; total, 33,9631. 4s. 1d. The costs, including royalty paid to the Crown, 20811. 17s. 3d., and income tax 7501., amounted to 21,9001. 12s. 6d. Two dividends paid 15,0001. Balance, crediting stock of ore on hand (98861.19s. 3d.), 81241. 16s. 10d. Cook's Kitchen shares advanced to 16,17. Drake Walls, 18s. to 20s. Don Pedro del Rey, 3½ to 3½ prem., ex div.; the estimated produce for February is telegraphed as 18,000 oits. of gold. East Caradon, 8 to 8½; East Carn Brea, 5s. to 7s. 6d.; East Lovell, 9 to 9½; Frank Mills, 3½ to 3½.

East Grenville shares have been firm, and largely dealt in at 6½ to 6½; the 120 is worth 1 ton of ore per fathom; the 95 fm. level rise,

East Grenville shares have been firm, and largely dealt in at 5½ to 6½; the 120 is worth 1 ton of ore per fathom; the 95 fm. level rise, 1½ ton; the 75, 1½ ton. The 55 is improving to 2 tons per fathom. In a pitch in the back of the 55 there is a splendid lode, worth 25% to 30% per fm. The next sampling will be 250 tons of good ore, and this would have been 350 tons but for the run of ground in the 45. Wheal Grenville shares have been firmer, and advanced to 51s., 53s. The report shows indications of being near upon the lode in the 90 cross-cut. Great Ratallek shares have been in demand, and advanced to cut. Great Retallack shares have been in demand, and advanced to $2\frac{1}{4}$, $2\frac{1}{9}$. A telegram was received on Tuesday that the 40 north had improved to 1 ton of lead ore per fathom. Great Wheal Vor shares advanced from 15 to $17\frac{1}{2}$; Herodsfoot, 44 to 46; Marke Valley, $8\frac{1}{4}$ to $9\frac{1}{4}$; Mineral Bottom, $3\frac{1}{6}$ to $3\frac{1}{4}$; New Lovell, $2\frac{1}{8}$ to $2\frac{1}{8}$; North Crofty, 1 to $1\frac{1}{8}$; West Basset shares have been extensively dealt in at 35s. to 40s. We understand the mine has been inspected by three different agents since our last, and these agree that with 48 heads of stamps the mine can make a profit of 500l. per month from tin. Great South Tolgus, 20s. to 22s.; General Brazilian, 5s. to 6s. prem.; North Treskerby, 17s. to 18s.; Prince of Wales, 21s. to 23s.; West Prince of Wales, 3s. 6d. to 4s. 6d.; Providence Mines, 40 to 41; South Condurrow, 24s. to 26s. West Chiverton, 51 to 52; the 120, west of Hawkes's, on south lode, is worth 30l. per fathom. The north, or William's, part when last taken down was worth 40l. per fathom. The 100. Great Retallack shares have been in demand, and advanced to No. 1 winze, below the 110 west, is worth 40% per fathom. The 100, west of Batters's, on south lode, is worth 25*l*. per fathom. The 100, west of Batters's is worth 30*l*. per fathom. No. 1 winze, west of Burgess', on the south lode, is worth 50*l*. per fathom. No. 1 winze, sinking below the 100, east of Batters's cross-cut, is worth 40*l*. per fm. winze sinking below the 90, west of Batters's, is worth 25%, per nom. The 100 fm. level end, west of Batters's cross-cut, is worth fathom. 25l. per fathom

Great North Laxey, $1\frac{1}{8}$ to $1\frac{1}{2}$; the 96 fm. level end north is in a fine-looking lode, worth $\frac{1}{2}$ ton of lead per fathom; the stopes, 1 ton; the 84 fm. level end is worth 1 ton; the 73, driving to get under the

for the month of January, and a profit, estimating the costs the same as December, of 450L; and there seems little doubt, we are informed, that this rate of profit can be kept up. Wheal Agar, 25s. to 27s. 6d.; at the meeting a call of 3s. per share was made.

We understand at the meeting to-day it was unanimously agreed

to amalgamate Mineral Bottom and Wheal Chiverton setts.

The market for Mining Shares on the Stock Exchange has been quiet; towards the close of the week prices were stimulated by some very satisfactory advices from the Frontino and Don Pedro Gold Mines; the former showing a profit on the month of 400L, causing a great advance on the shares, and from the latter a satisfactory remittance on the other hand. St. John del Rey shares have been flat. mittance on the other hand. St. John del Rey shares have been flat. The following are the closing prices:—Frontino, \(\frac{1}{2} \) to 1; Taquaril, 4s. to 6s.; Chontales, \(1\frac{1}{2} \) to 1\(\frac{1}{2} \); Don Pedro, \(3\frac{1}{2} \) to 3\frac{1}{2} \) (cx div.); St. John del Rey, 18 to 18\frac{1}{2} \); Anglo-Brazilian, 5-16ths to 3-16ths dis.; Anglo-Argentine, par to 1-16th prem.; Port Phillip, 19-16ths to 11-16ths; Rossa Grande, 7-16ths to 9-16ths prem.; Sao Vicente, par to \(\frac{1}{2} \) prem.; General Brazilian, \(\frac{1}{2} \) to 5-16ths prem. In British Mines, Great Wheal Vor shares have had a considerable rise, closing at the highest price of the week, 16\frac{1}{2} \) to 17. Van shares still attract large amount of attention as an investment. The mine is steadily improving, the lode in the shaft and cross-cut is very rich, and the shares in demand at higher quotations.—Glan Alun: Now that the water-wheel is completed this mine will shortly be in a good paying state, when the shares are safe for a great rise. West Chiverton, \(\frac{1}{2} \) to 51\frac{1}{2} ; Chiverton, \(3\frac{1}{2} \) to 63\frac{1}{2} ; Great Wheal Vor, 16\frac{1}{2} \) to 17; Great Laxey, 19 to 19\frac{1}{2} \); Drake Walls, 19s. to 21s.; East Caradon, 7\frac{1}{4} \) to 8\frac{1}{4} \); Trelawny, 8 to 9; West Caradon, 4 to 4\frac{1}{2} \); Van, 24 to 25 ; Glan Alun, 12s. 6d. to 13s. 6d. (ex call).

During the quarter ending March 30, the quantity of copper ore, the

During the quarter ending March 30, the quantity of copper ore, the During the quarterending March 30, the quantity of copper ore, the produce of Cornwall and Devonshire, sold at the Cornish Ticketing, was 21,870 tons, which contained 1475 tons 11 cwts. of fine copper, and realised 96,464\(lefta\). Is., being equal to an average of 4\(lefta\). Ss. 2d. per ton of ore, and 65\(lefta\). 7s. 6d. per ton of copper in the ore. During the same period the British, colonial, and foreign ores sold at Swansea amounted to 4420 tons, which contained 620 tons 1 cwt. of fine copper, and realised 44,671\(lefta\). Os. 6d., being equal to an average of 10\(lefta\). 2s. 1d. per ton of ore, and 72\(lefta\). 1s. per ton of copper in the ore. The average produce of the ore sold at the Cornwall Ticketings was 6\(\frac{1}{4}\) per cent, whilst that sold at Swansea gave an average produce of 14 per cent. From this it will be seen that the aggregate sales by ticket were 26,290 tons of ore, containing 2095 tons 12 cwts. of fine copper, and realising 141,135\(lefta\). 1s. 6d. The subjoined is a summary of the periodical sales at the Cornwall and Swansea Ticketings respectively:—

The ores sold at the Cornwall Ticketings were—

Date.	Sta				rod.															
Jan. 7 :	£105	0	0		61/2	24	1	6		128	. 70	۱	685		44	11		€ 2,793	3	6
,, 21	108	13	0		65/8	4	10	0		13	4	••	3322	••	221	12	••	14,942	1	6
,, 28	103	9	0		75/8	5	3	0		13	6	••	2341		178	12		12,039	12	6
Feb. 4	107	11	0		63/8	4	3	6		12	11	••	2432	••	156	2		10,098	11	0
,, 11	106	4	0		61/2	4	2	0		12	9		1529	• •	98	18		6,298	5	0
,, 18	113	2	0		55/8	3	13	0		12	10		3102	••	175	14		11,339	19	0
,, 25	100	7	0	••	7%	5	4	0		13	11	4.	1478	••	117	15		7,726	0	0
March 4.	104	1	0	••	7	4	9	6		12	91	6.	1069	••	74	4		4,779	1	0
,, 11	101	14	0		714	4	13	0		12	91	4.	607	••	44	3		2,821	6	0
,, 18	110	2	0		61/8	3	19	0		13	0	••	3394	••	206	10		13,401	16	6
,, 25	98	6	0	••	81/4	5	7	0	••	13	0	••	1911	••	157	10		10,224	5	0
	To	otal	f	ori	the qu	art	er.			•••	•••	. 2	1,870		1475	11	٠	£96,464	1	0
	Qt	ar	te	r ei	nding	Dec	em	bei	r, 1	868		. 2	8,876		1967	17		121,335	3	0
	Qt	ıar	ter	en	ding	Sep	tem	be	r, 1	868		. 2	8,414		1852	9		113,064	3	6
	Qt	ıar	tei	r et	nding	Jur	ie, 1	86	8 .	•••		. 3	1,644	••	2026	9	••	141,281	0	6
	To	ota	f	or	the yo	ar.	•••				•••	11	0,804		7322	6		£472,144	8	0
	Sh	ow	in	ga	quar	terl	yа	vei	ag	e of		2	7,701		1830	12		118,036	2	0
	Co	rre	sp	on	ding	ıuaı	rter	. M	lar	1	868	2	9.781		1942	4		133,390	19	6

The ores sold at the Swansea Ticketings were-

Date.	Stand. Prod. Pricep. ton. Per unit.	. Tons. Fine cop.	Amount.
Jan. 26 :	£95 16 6 175% £13 1 2 14s. 10d.	. 1245 219 9	£16,261 14 0
March 2.	94 1 0 934 6 15 9 13 9 .	. 1129 110 1	7,666 19 6
,, 24.	93 13 6 141/4 10 2 9 14 3 .	. 2046 291 11	20,742 7 0
	Total for the quarter	4,420 620 1	£44,671 0 6
	Quarter ending Dec., 1868	6,070 923 0	63,757 0 6
	Quarter ending Sept., 1868	10,5721477 11	. 100,875 7 6
	Quarter ending June, 1868	12,397 1883 3	. 141,023 10 6
	Total for the year	83,4594903 15 .:	£350,326 19 0
	Showing a quarterly average of	8,3651225 19	87,581 15 0
	Corresponding quarter, March, 1868	5,127 869 1	61,906 3 6

At Camborne Ticketing, on Thursday, 2083 tons of ore were sold, realising 82361, 2s. 6d. The particulars of the sale were:—Average standard, 1061, 1s.; average produce, 6\(^2\); average price per ton, 31, 19s.; quantity of fine copper, 131 tons 13 cwts. The following are the particulars of the sales during the past month:—

Date. Tons. Standard. Produce. Per ton. Per unit. Ore copper. March 4... 1069 ... £104 00 ... 7 ... £1 9 6 ... 12s. 9\(^4\)_2 d... £64 0 0 ... 7 ... £1 9 6 ... 12s. 9\(^4\)_2 d... £64 0 0 ... 11 667 ... 101 14 0 ... 7\(^4\)_4 ... 4 13 0 ... 12 9\(^4\)_2 ... £61 8 0 ... 25 ... 101 11 9 8 6 0 ... 8\(^4\)_4 ... \$6 7 0 ... 13 0 ... 65 0 0 ... \$65 0 0 0 ... \$65 0 0 0 ... \$65 0 0 0 ... \$65 0 0 0 0 0 0 0 0 0 0 0 0 0

The WINTER'S FREEHOLD GOLD MINING COMPANY and the GREAT The WINTER'S FREEHOLD GOLD MINING COMPANY and the GREAT NORTH-WEST COMPANY are being introduced on the London market by Mr. W. C. Smith, 6480 shares of 25%, each on the former adventure, and 10,000 shares of 10% each in the latter, being offered by the prospectus, which will be found in another column of this day's Journal. The proportion offered in London is about half in each case, and the object of the step is to enable the companies, by the erection of more powerful machinery to develope more rapidly, and with greater efficiency than would otherwise be possible, the gold-bearing alluvial leads ascertained to exist in their several properties. The enterprise is more fully referred to elsewhere.

Mines.		sha			Amo		
Great Laxey		10	0				1
Wicklow	. 0	- 5	0		4,250		-
Devon Great Consols	. 4	0	0		4,096	0	-
Tincroft	. 0	10	0		3,000	0	-
South Caradon	. 5	0	0		2,560		-
Providence	. 1	10	0		1,680	0	-
Great Wheal Vor		5	0		1,477	0	-
Lisburne	. 3	0	0		1,200	0	-
Wheal Jane		0			1.024	0	(
Ding Dong		10	0		984	0	(
Wheal Mary Ann	. 0	17	6		896	0	(
East Pool		0	0		640	0	-
East Darren	. 2	0	0		600	0	1
North Levant		5	0		500	0	-
Don Pedro North del Rey	. 0	6	0		23,419	16	H
Fortuna	. 0	3	0		3,750	0	6
Alamillos	. 0	2	0		3,500	0	(
Linares		3	4	*****	2,500	0	(

At the South Caradon Mine meeting, on Tuesday, the accounts for At the South Caradon Mine meeting, on Tuesday, the accounts to November and December showed a credit balance of 54841. 5a. 3d. A dividend of 25601. (51. per share) was declared, and 28831. 5a. 3d. carried forward. Capts W. Rule and J. Holman say—"We are much pleased to be still able to inform you that our mine continues to look well, with every prospect of a continuance. The discoveries we are making in different parts of the mine warrant us it stating we are maintaining our position, and will enable us to pay our dividends, and should the standard advance to increase them. During the past two months we have intersected, in the eastern part of the mine, one of the East Caradon south lodes, which presents a very promising appearance, and when developed we hope will prove a valuable addition to your property."

At Ding Dong Mine meeting, on March 25, the accounts for the quarter ending Dec. 31 showed 51 tons of tin sold, at 691, 17s. per ton, realising profit 16821, 12s. 6d. A dividend of 30s. per share was declared, and 1311. 10s. 9d. carried to next account. The mine is looking well, and the captains' report states that they have a strong hope of being able to return a similar quantity of tin for the current quarter, without reducing the stock of tinstuff now on the mine unstamped, which they estimate to be worth about 1400l. The number of stamps heads is to be increased to 44. The new discovery, on Rowe's lode, is now worth 351, per fathom, driving at 81, per fathom.

At the Providence Mines meeting, on Wednesday, the accounts showed a credit balance of 1947. 1s. 6d., and the profit during the quarter was 16951, 15s. 6d. A dividend of 16801, (30s. per share) was declared, carrying forward a credit balance of 2671, is. 6d. The report stated that there was no material change in the prospects of the mine, which continues to look well.

At the Great North Laxey Mine meeting, on Tuesday (Mr. Buller

At the Great North Laxey Mine meeting, on Tuesday (Mr. Buller in the chair), the special resolution empowering the directors to increase the capital by the issue of 2500 ordinary shares was unanimously confirmed. The report stated that there was nothing new to report in the bottom of the 110. The 96 fm. level end north is still in a fine-looking lode, worth ½ ton of lead per fathom. The stopes in the roof are worth about 1 ton of lead per fathom. The lode in the 84 fm. level end north continues to look quite as well as reported at the general meeting, and worth about 1 ton of lead per fathom. The 73, lately resumed, and dirving towards this discovery, is improving, and now yielding good stones of lead. There are dressed and on the floors from 12 to 15 tons of lead.

At Wheal Uny meeting, yesterday (Mr. R. M'Callan in the chair), the accounts showed a loss on the quarter's working of 11921, 138, 1d., and a balance against the mine of 171. Is. 10d. The report from the agents stated that the machinery is inadequate to keep the water, hence the great loss on the past three months. The agents recommended converting the present 50-inch into a 60-inch pumping-engine, the sinking a new perpendicular shaft, and the erection of a 70-inch engine, the sinking a new perpendicular shaft, and the erection in the control of the present engine, the recommendations of the agents ary arrangements for carrying into effect the recommendations of the agents —the alteration of the present engine, the erection of a 70-inch cylinder steamengine, and the sinking a new perpendicular shaft, in the engine of the Renderman engine, and the sinking a new perpendicular shaft, in the Rhenish Consolidated Mining Company meeting, on Wed-

At the Rhenish Consolidated Mining Company meeting, on Wed-lesday (Mr. Phillip Wright in the chair), the accounts showed a balance of sects over liabilities of 8s1l. 19s. 4d., exclusive of the value of the property, achinery, &c. Details in another column.

The Braganza Gold Mining Company's shares are at 1 to 3 prem. COAL MARKET.-The fresh arrivals this week amounted to 138 ships. House coals were in good demand, and the whole quantity found buyers at last week's prices. Hartley's were less active, and prices declined 3d. per ton. Haswell Wallsend, 18s. 3d.; South Hetton Wallsend, 18s.; Eden Main, 16s.; South Hartlepool Wallsend, 15s. 9d.; Hawthorn Wallsend, 15s.; Hastings Hartley, 15s. Unsold, three car-goes: 30 ships at sea. [In last week's Journal, Original Hartlepool were quoted at 16s. 6d., instead of 18s. 6d. on the market.]

THE STANNARIES COURT.—For some years past the office of Deputy-Registrar of the Vice-Warden's Court has been very ably filled by Mr. F. Marshall, and it is generally felt by those who have business at the Court that it would be almost impossible to find a gentleman more competent, or better fitted, to occupy the post of Registrar, recently rendered vacant by the decease of Mr. W. Mitchell. With a view to give practical effect to the feeling, a memorial is in ocurse of preparation (having already been numerously and influentially signed both in Cornwall and Devon) for presentation to the Prince of Wales's Council, praying for Mr. Marshall's appointment.

FOREIGN METALLURGY.—Our Correspondent, in his letter in the Supplement to this week's Journal, refers to the success of ironmasters in France in competing with England for certain American railway orders. It appears that the St. Dizier Iron Works have got an order for the engines and rails of the Memphis section of the great line between the Atlantic and the Pacific. This is understood to be the first time that the French ironmasters have treated directly with the Americans. Creuzot, too, it is alleged, has secured an order for 55 locomotives for one of the new Russian railways, M. Klett, of Nuramburg, getting the order for the wagens remburg, getting the order for the wagons.

*** With this week's Journal a SUPPLEMENTAL SHEET is given, which contains—Prof. Warington Smyth's Lectures at the Royal School of Mines—The New Methods of Manufacturing Steel, by Dr. B. H. Paul—The Mineral Resources of Nova Scotia—The Origin of Valley Gravels—Brazil and the River Plate—Unwise Colonial Policy—Quarterly Journal of Science—Directors' Reports of the Fortuna, Alamillos, Linares, and Laguna Companies—Foreign Mining and Metallurgy—Quarterly Sales of Copper —Foreign Mining and Metallurgy—Quarterly Sales of Copper ore—Foreign Mine Reports—Metallic Ropes—The Great Rail-way Systems—Science and Art, &c.

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TO CAPITALISTS, COMPANIES, ETC.

MINING ENGINEER, of LARGE EXPERIENCE, both in the COLLIERIES and MINE WORKS of SOUTH WALES, and in IRON MINES ABROAD, and now residing and holding an important mineral agency in Wales, has a part of his time unoccupied, and is OPEN to MAKE ARRANGEMENTS with any GENTLEMEN or COMPANY who may wish to employ him in the INSPECTION or SUPERINTENDENCE of MINING WORKS

and any and a superintended in the INSPECTION or SUPERINTENDENCE of ALLAND MINING, or FROPERTIES.

He is thoroughly acquainted with sound practical COAL and IRON MINING, and their corelative branches, and can produce the highest references as to respectability and competency. Reports, surveys, and valuations made, and railways, inclines, &c., planned and superintended.

Address—"Alpha, Ff. T." Pontypridd, Glamorganshire.

WANTED, a MINING CAPTAIN, to go out to ITALY. One accustomed to Gold Formations, and speaking Italian, or either French, Y accustomed to Gold Formations, and speaking Italian, or either French Spanish, or Portugese. Apply, stating salary and age, to Mr. PEARSON MORRISON, Domo d'ossala, Italy.

WANTED, a SITUATION, by a good practical ASSAYER and ANALYST, or to MANAGE COPPER SMELTING or other works, or to BUY ORES at home or abroad. Good references given, and good salary required.

Address, F. J. MERRY, 4, Elliott-street, Swansea. WANTED, by a Mining Company on the Continent, A YOUNG PRACTICAL CHEMIST, capable of MAKING a PERFECT ANALYSIS of COPPER ORES. A gentleman conversant with the extracting of copper by the wet process will be preferred.

Apply, per post, stating terms, and enclosing testimonials, to "R. H.," care of S. J. Scott and Co., Metal Brokers, Birmingham.

TO SLATE QUARRY WORKERS AND PROPRIETORS.

ANTED, a PARTNER, with £500, in an excellent SLATE QUARRY in SOUTH DEVON. The quarry is now in full working order, with PLANT, &c.; or the proprietor is prepared to TREAT for the SALE of the QUARRY.

of the QUARRY.

For a view, and further particulars, apply to Mr. Oldreive, King's Arms
Inn, Street, near Dartmouth; to Mr. T. L. Oldreive, Land Surveyor, Bridgetown, Totnes; or to Mr. Smith, Solicitor, Dartmouth.—March, 1869.

TO CAPITALISTS.

WANTED, a RESPECTABLE PARTY to JOIN in WORKING an excellent SLATE AND SLAB QUARRY, or a PART of the PRO-PERTY would BE SOLD.

No one need apply but respectable capitallets who shall be sounded. No one need apply but respectable capitalists, who could give good references. Apply, by letter, to Mr. H. W. Jones, 5, Earl-street, Wrexham.

WANTED, a PRACTICAL STEADY MAN, to MANAGE a
BLAST FURNACE. He must be thoroughly acquainted with the
practical working of furnaces, and able to take tools into his own hands in case
of need. He will not be required to keep books. Salary, £80 a year.
Apply by letter, with references, to "Blast Furnace," Post Office, Neath, Glamorganshire.

WANTED, a FOUR or FIVE TONS TRAVERSING JACK SCREW.—Apply, "Box 41," Post Office, Swansea.

FLUOR-SPAR.—A LARGE QUANTITY of the above, of the very best quality, FOR SALE.

For further particulars, apply to Mr. MATTHEW GREENE, 14, Pinner's Hall, Old Broad-street, London, where samples may be seen.

VALUABLE SLATE QUARRY INVESTMENT.

TO BE DISPOSED OF, on the most reasonable terms, ONE SHARE in the DOLGOED SLATE AND SLAB QUARRY.
Apply, by letter, to "J. C. B.," Gaewern Post Office, Corris, Machynlicth.

TO SPADE, SHOVEL, AND SCRAP USE MANUFACTURERS.

TO BE DISPOSED OF, the LEASE of the OLD FORGE, near KIDWELLY, CARMARTHENSHIRE, worked by water power; with the MACHINERY, PLANT, TOOLS, &c., all in good working order, and competent to turn out 200 dozen showls per week. ompetent to turn out 200 dozen shovels per week.
Apply to Mr. R. EENDERSON, Land and Mine Agent, Kidwelly.

TOLET, A VALUABLE COAL MINE.—
Apply to Mr. George Davidson, Mawley, Cleobury Mortimer, Shropshire.—Doc. 12, 1868.

LOCOMOTIVE, PUMPING, AND WINDING ENGINES

By leading builders, and at greatly reduced prices; STEAM CRANES, BOILERS, CASTINGS, WAGONS (on sale or hire); RAILS, (HA IRS, POINTS and CROSSINGS, SLEEPERS, WIRE and HEMP ROPES, and every description of RAILWAY and MINING PLANT (new and secondhand).

Particulars and quotations on application to—
T. E. MINSHALL,

QUEEN STREET CHAMBERS, WREXHAM.

FOR SALE, ON VERY REASONABLE TERMS:—
48 EARTH WAGONS, at £3 28, 64, each,
100 tons KENTLEDGE IRON,
300 tons STAFFORDSHIRE PIG IRON,
300 tons STAFFORDSHIRE PIG IRON,
200 tons BEST SHEET IRON, damaged by salt water, No. 2 to 20 W.G.

WANTED TO PURCHASE, OLD SMALL PIT RAILS. Address to John Roberts, Iron Merchant and Metal Broker, 55, Tower-buildings East, Liverpool.

RHENISH PRUSSIA.

SEVERAL VALUABLE MINES FOR SALE,—LEAD, COPPER, BLENDE, and IRON. The Mining Laws of Prussia give with the concession to work, an absolute right of property in the mine for ever, subject only to a royalty of 2 per cent.

Apply to Mr. Younghusband, 614, Wilhelm Strasse, Bonn-on-the-Rhine.

			LE.	AD	OR	ES.			
	Date.	Mines.	Ton	s.	Price	per	rte	on.	Purchasers.
13	farch	20-Bronfloyd United	60		.£13	10	0		Runcorn Smelting Co
1		25-Cargoll							
1		26-Great Laxey	100		. 22	15	0		Burry Port Company,
L		27-Dylife							
1		29-East Logylas	40		. 11	17	0		Panther Lead Co.
1		-Cwmystwith	50		. 12	1	0		ditto
ı		-Glogfach	45		. 17	17	6		Sheldon, & P. S. Co.
		-Bwich Consols							
1		-Bwadrain Consols	30		. 12	8	6		Walker, Parker, & Co.
1		30-Dylife	58		. 12	10	6		A. Eyton,
		31-Plynlimmon	50		. 11	15	6		Walker, Parker, & Co.
1		-Foxdale							
1		-Caldbeck Fells	41	14	. 13	6	0		Sims, Willyams, & Co.

BLENDE

BLACK TIN.

Date.	Mines.	Ts	. c.	Q.	lbs	Price	p.	tot	1.	Amo	unt.	. P	urchasers.
March	22-Wheal Buller.	5	4	Ô	23	 £74	0	0		£ 385	11	2-M	lellanear.
	- ditto												ditto
	24-Pedn-an-drea.												etropies.
	25-Penhalls	16	15	0	22	 74	7	6		1246	10	3-	-
	31—North Roskear	14	14	3	14	 72	0	0		1061	11	0-M	lellanear.

COPPER ORES.

 Date.
 Mines.
 Tons.
 Price per ton.
 Purchasers.

 March 31—Galdbeck Fells.
 4½
 £19 15 6
 Bibby, Sons, & Co.

 — ditto
 8
 6 14 0
 ditto

COPPER ORES.

Sampled March 10, and sold at Tabb's Hotel, Redruth, March 25.

				Mines.			Ice.	
South Caradon			6	Poldice Mines			16	0
	77	5 10	0	ditto	. 60	 6	9	6
ditto	76	5 13	()	ditto			11	6
ditto	71	14 5	G	Phoenix Mines	. 76	 4	19	(
ditto	70	14 0	0	ditto	. 64	 4	3	6
ditto	65	6 2	6	ditto			2	6
ditto	60	13 7	6	North Treskerby	. 39	 5	4	
Glasgow Caradon .	99	. 4 4	0	ditto			10	6
ditto	73	4 19	6	ditto	. 35	 4	12	(
ditto	65	5 5	6	West Caradon	. 60	 3	11	6
ditto	55	2 16	6	ditto			0	6
Clifford Amalgama	ted 65	1 11	6	Craddock Moor		4	17	0
ditto	60	2 8	6	ditto		4	6	0
	56		6	New Treleigh	. 24	 1	11	6
ditto	43	2 19	6	ditto			15	(
ditto	34	2 9	0		. 13	 2	14	(
	17		0	ditto	. 12	 2	17	6
	15		0	Maudlin Mines	. 11	 2	0	0
Poldice Mines			0			 -		•

			TO	TA1	a P	RODUCE.						
	South Caradon	502	 £4601	1	61	West Caradon	105	£	440	12	6	
	Glasgow Caradon.	292	 1277	4	6	Craddock Moor	85		390			
ĺ	Clifford Amal	290	 656	18	0	New Treleigh	35		123	1	0	
١	Poldice Mines	260	 1073	8	6	Tywarnhaile	25		69	12	0	
	Phoenix Mines					Maudlin	11		22	5	6	
ı	North Treskerby.	110	 527	13	6							
ľ	A		0 00	49	0.1	A management man Arras				-		

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Mines.	Tons.			
Vivian and Sons				
Freeman and Co				
Grenfell and Sons	1851/2	. 1526	13	9
Sims, Willyams, and Co	179	. 1443	19	5
Williams, Foster, & Co	329	2385	15	6
Mason and Elkington	342%	. 1284	13	5
Bankart and Sons	113 6	256		9
Copper Miners Company	19116	1071	3	9
Sweetland, Tuttle, and Co	1121/2	467	18	9
Total	1911	£10,224	5	0

Sampled March 17, and sold at Tyack's Hotel, Camborne, April 1.

Mines.	To	ons.	Pr	ice.		Mines.	Ton	8.	Pr	ice	
Wheal Seton		91	£3	6	6	South Crofty	50		£2	15	-
Pendarves		87	0	17	6	ditto	43		2	17	-
ditto		82	3	13	0	ditto	40		2	15	-
ditto		71	3	13	6	ditto	37		2	0	-
ditto		70	3	14	6	ditto	25		7	12	-
			4	3	0	ditto	15		10	3	-
			4	14	0	Wheal Basset				2	
			3	16	0	ditto				12	-
			2	8	0	ditto					
			0	17	6	ditto				1	
			1	15	6	ditto				14	
			2	1	6	ditto				16	
			2	î	6	East Pool				11	
			7	9	0	ditto					1
			3	6	0	ditto				8	
			A	14	6	Dolcoath				16	
			7	13	6	ditto					
			7	9	6	East Basset				16	
			0	11	0						1
			8	6	0						1
			5	0		Falmouth & Sperr					
South Crofty			-	10	6	Carn Camborne			-	15	1
ditto	*******	02	1	19	6	Pendarves United.	6		2	8	-

TOTAL PRODUCE.

COMPANIES BY WHOM THE ORES WERE	PUR	CHASE	ED.	
Names. Tons.		Am	oun	t.
Vivian and Sons 340		£1847	13	2
Freeman and Co		798	16	0
Grenfell and Sons 52		340	11	0
Sims, Willyams, and Co 181		848	7	9
Williams, Foster, and Co 375			7	8
Mason and Eikington 298		1228	12	7
Bankart and Sons 203		600	14	9
Copper Miners' Company 285		8119	12	3
Charles Lambert 111		490	9	9
Sweetland, Tuttle, and Co 121		359	17	7
m-4-1		FOODE	0	-
Total 2083		£8235	2	6

Copper ores for sale at Tabb's Hotel, Redruth, on Thursday next-Mines and parceis.—Creaver and Abraham 380—Carn Brea 312—Par Concols 195—Prosper United 141-North Downs 128—East Carn Brea 115—Emily Henrietta 93—Great South Toigus 20.—Total, 1384 tons.

NO SALE on Thursday week, March 15.

Consolidated Australian Gold Mines.

The Agent in London, WILLIAM COLLARD SMITH, Esq., is prepared to receive applications for 6480 Shares in

THE WINTER'S FREEHOLD GOLD MINING COMPANY, LIMITED,

BALLARAT, VICTORIA.

Capital £324,000, in 12,960 Shares of £25 each, viz :-6480 Shares paid up to £20 each, held in the Colony. 6480 Shares to be allotted in London.

12,960

£5 to be paid on allotment, on which scrip will be given, and £5 three months after allotment; the balance, if required, in payments not exceeding 10s. per share per month, but no further call will be made for the first six months.

BOARD OF MANAGEMENT, BALLARAT. WILLIAM COLLARD SMITH-CHAIRMAN-Chairman of the Band of Hope and Albion Consols, and Great

North-West Companies.

CHARLES SEAL, Chairman of the United Albion and Prince of Wales Companies.

JOHN HUNT, Director of the United Sir William Don Company.

H. LEVISON, Director of the Newington Freehold Gold Mining Company.

E. A. WYNNE, Chairman of the Black Hill Quartz Mining Company.

JAMES CROYLE, Director of the Black Horse Quartz Mining Company, Egerton.

EDWARD VINE GRIBBLE, Director of the Scottish and Cornish and Koh-i-Noor Gold Mining Companies.

The Agent in London is also prepared to receive applications for 10,000 Shares in

THE GREAT NORTH-WEST COMPANY, REGISTERED,

BALLARAT, VICTORIA.

Capital £250,000 in 5000 Shares of £20 each, and 15,000 Shares of £10 each, viz.:-

5,000 Shares of £20 each, fully paid up, held in the Colony. 5,000 Shares of £10 each, £5 paid up, also held in the Colony. 10,000 Shares of £10 each, to be allotted in London.

£2 10s. to be paid on allotment, on which scrip will be given, and £2 10s. three months after allotment; the balance, if required, in calls not exceeding 10s. per share per month, but no further call will be made for the first six months.

£25,000 has to be paid to the holders of the £20 shares; the remainder of the capital raised will be expended

in future mining operations.

In the payment of dividends in this company all shares will rank of equal value, irrespective of the amount paid up.

BOARD OF MANAGEMENT, BALLARAT.

WILLIAM COLLARD SMITH—CHAIRMAN—Chairman of the Band of Hope and Albion Consols, and Winter's Freehold Gold Mining Companies.
WILLIAM CAMERON, Chairman of the Bonshaw Gold Mining Company.

A. J. FORBES, Manager of the Band of Hope and Albion Consoli J. MUNRO, Director of the Koh-i-Noor Gold Mining Company. W. BALLANTYNE, Chairman of the Prince of Wales Company.

The Liability in both Companies limited to the amount of the Shares.

PROVISIONAL COMMITTEE

(To allot shares).

J. J. FALCONER, Esq., 132, Piccadilly, Director of the Bank of Australasia, London, and late (for twenty years) Superintendent of that Bank in the Colonies.

J. F. V. FITZGERALD, Esq., 11, Chester-square, London, formerly Colonial Secretary in Victoria.

W. COLLARD SMITH, Esq., J.P., Langham Hotel, London, Chairman of Band of Hope and Albion Consols, and Great North-West Gold Mining Companies, Ballarat, Victoria.

(With power to add to their number.)

A Meeting of Shareholders of each Company will be called immediately after the allotment of shares, for the purpose of electing their representatives to manage the affairs of the company in London. An office and transfer register will also be opened forthwith for the transfer and registry of shares.

CONSULTING ENGINEER-THOMAS CARPENTER, C.E., M.E., London. -NATIONAL PROVINCIAL BANK OF ENGLAND, Threadneedle-street, London; and LONDON AND COUNTY BANKING COMPANY, 21, Lombard-street.

SECRETARY (pro tem.)-THOMAS DICKER.

TEMPORARY OFFICES,-AUSTRALIAN AND LONDON MINING AND GENERAL AGENCY, 4, ROYAL EXCHANGE AVENUE, ROYAL EXCHANGE BUILDINGS, E.C.

The object of these colonial companies in thus offering portions of their interests in London is to enable them, by the crection of adequately powerful mining machinery, to develope more rapidly and with greater efficiency than otherwise would be possible the gold-bearing alluvial leads ascertained to exist in their several properties. Dissorbit property, area 1359 acres 3 roods and 25 perches, on the Ballarat and Schastopol plateau. Title, grant from the Crown. No royalty, tribute, or dues.

2.—The Foreat North-West Property, area 3006 acres. Held under the mining laws of the district of Ballarat. No royalty, tribute, or dues, but a licence fee for right to mine to the Crown not exceeding £200 per annum.

The Winter's Freehold Gold Mining Combany (Limited) purchased their freehold from Mr. John Winter, who originally bought it from the Crown. Bottom of Australia, 47, Cornbill.

The property adjoins the township boundary of Ballarat proper, and its surface is leased for agricultural and grazing purposes, at a rental of £900 per annum. Some of these leases have already fallen in, and the longest has but four years to run.

Total.....£280,855 12 4 £2,565,412 1 4

PARTICIPATION CHARENTAISE.

PARTICIPATION CHARENTAISE.

A GRANDE MARQUE COGNAC.

V. JOUANNET, Managing Director.

LONDON OFFICES.—22 and 23, GREAT TOWER STREET.

Under the management of
Mr. E. VIGNIER, of COGNAC.

THE LARGEST HOLDERS IN COGNAC OF THE FINE VINTAGE OF 1865,
1,200,000 GALLONS,
Equal to the best brands imported since the beginning of 1866.

THEY CHALLENGE COMPARISON.

Also of the very old Brandies of the first growths and of the last vintage, 18
To be obtained of all wine and spirit merchants—and brokers.

The Articles of Association provide for an inspector to be appointed by, and to be under the sole control of, the representatives of the English shareholders.

Feb. 1, 1869.—Official advices received by the February mail, via Marseilles, state that No. 2 had bottomed on gold, and would be in full operation in omouth from that date; and No. 1 shafe had been sunk to the requisite depth of 460 feet, and was expected to be in gold within three months of the above date. The Great North-West Company, Registered, Ballarat, holds 3006 acres, under the mining laws of the district. This area, which adjoins the town of Ballarat on the noth-west, comprises a considerable portion of the ancient water-shed, lying beneath a plateau similar to that known as the Schastopol, of which latter the Winter's Freehold forms a part.

A large and well constructed shaft, 335 feet in depth, has been sunk to within 20 feet of the gold-bearing drift. The present machinery and appliances having proved insufficient has rendered it necessary to raise additional capital. A second shaft is now going down, and plant and engines of ample power will be sent out from England to effectively work the mine.

Feb. 1, 1899.—LATER'S ADVICE.—A third shaft has been begun, and the adjacent companies were getting gold.

Tributaries or gold-bearing leads coming from the north-east have been traced trending into the company's property, from one of which a neighbouring mine—the Great Northern Junction Gold Mining Company—is now realising large yields of gold.

The area of this mine is by far the largest in the colony.

—the Great Northern Junction Gold Mining Company—is now realising mage yields of gold.

The area of this mine is by far the largest in the colony.

The bores shown on the pian prove conclusively to the miner the proximity of the gold-bearing ground or gutter to the shafts now going down.

The relative position of the Great North-West Mine to the Winter's Freehold Mine may be ascertained by referring to the plans.

A list of credentials from all the principal banking establishments in the colony to their offices in London, and also from a number of other persons of influence and standing there, furnished to the agent on his leaving Victoria for London, besides copies of various reports made by Government surveyors and others who are well acquainted with and have personally inspected the properties, together with plans of the properties, can be had on application, and every information obtained at the temporary offices of the companies.

The Articles and Memoranda of Association of the companies can be seen also at the temporary offices of the companies.

The Articles and Memoranda of Association of the companies can be seen also at the temporary offices of the companies.

Applications in the annexed form will be received by the agent, William Collard Smith, Esq., at the temporary offices, 4, Royal Exchange Avenue, E.C.

FORM OF APPLICATION FOR SHARES. To the Agent and Provincial Committee of the Winter's Freehold Gold Mining Company (Limited), Ballarat.

GENTLEMEN, -I request you to allot me shares in the Winter's Free-hold Gold Mining Company (Limited), Ballarat, and I hereby agree to accept the same, or any lesser number which may be allotted to me.

FORM OF APPLICATION FOR SHARES.

To the Agent and Provisional Committee of the Great North-West Company (Registered), Ballarat.

GENTLEMEN,—I request you to allot me shares in the Great North-West Company (Registered), Ballarat, and I hereby agree to accept the same, or any lesser number which may be allotted me.

Name in full
Address in full
Date Occupation

Now ready, price 2s.,

THE NORTH SOMERSETSHIRE COAL FIELD .-

OPINIONS OF THE PRESS.—"A WORK OF Great practical value to all interested n the development of a great South England Coal Field."—Mining Journal.

"The task of estimating the quantity of coal still remaining in the North Somersetshire Coal Field is very difficult. Here we have a very troubled field goological enquiry, and of great perpicative and expense to the coal miner. Mr. Brice understands his subject, and his style of writing is clear and interesting."—Colliery Guardian.

BEMROSE and LOTHIAN, 21, Paternoster-row; or post free from the

A LARGE AMOUNT of MONEY being EXPENDED in ADVERTISING in WORTHLESS PUBLICATIONS, C. H. MAY will be HAPPY to AFFORD INFORMATION to ADVERTISERS in the SELECTION of the BEST and

C. H. MAY'S GENERAL ADVERTISING OFFICES.

ESTABLISHED 1846.

I DVERTISEMENTS inserted in all the London Provincial, Foreign, and Colonial Newspapers.

78, GRACECHURCH STREET, CITY, E.C.

Notices to Connespondents.

•.* Much inconvenience having arisen in consequence of several of the Numbers during the past year being out of print, we recommend that the Journal should be filed on receipt: it then forms an accumulating useful work of reference.

COPPER SMELTERS.—Will some reader kindly inform me whether the Union of Copper Smelters is thoroughly re-established and complete as before? And, if so, where can the official list be obtained, showing the prices fixed by them at their respective meetings?—J. L.

STRAY PARK.—I am glad to find that the adventurers are, at last, demanding something more satisfactory from the committee of management than the meagre reports and heavy calls to which they have hitherto submitted too patiently. If the present price of tin will not only pay cost of working, but leave a profit for the shareholders, I would suggest that the concern be woundup, or a complete change effected in the management.—ANOTHER DISSATISFIED SHAREHOLDER.

THE MINING JOURNAL,

Bailway and Commencial Gazette.

LONDON, APRIL 3, 1869.

CAPITAL, LABOUR, AND UNIONISM.

CAPITAL, LABOUR, AND UNIONISM.

"Mr. NORMANSELL had a great amount of work to perform, along with Mr. CASEY, as they had now something like from 1600 to 1800 men out on strike, which includes the men at Denaby Main, Thorncliffe, Silkstone, and Tinsley Park Collieries." This we extract from a reported speech delivered last Tuesday, by Mr. WILLIAM BROWN, at the now "usual weekly" meeting of the miners who are "out" at the Denaby Colliery, near to Sheffield; and they were used in connection with an apology for the absence of Mr. NORMANSELL. The meeting took place after that had occurred, which the Sheffield Daily Telegraph of the following day described in these terms:—

"They (the colliers out) assembled in large numbers at Sparrow Barracks, and after some deliberation decided that the best course to take would be to wait until the non-Union men should leave their work at the pit, and then give them a warm reception. Accordingly, about a hundred of them took possession of two bridges close to the colliery, so that they might be enabled to watch the exit of the black sheep from the pit bank. They waited patiently for a considerable period. Some women congregated before the houses occupied by the new colliers, and commenced singling songs, the gist of the ditties setting forth allegiance to the Union. One aged dame was particularly demonstrative. She stated that her name was Betzy, and she called upon her companious in a stentorian voice to 'come on and show their courage by joining their locked-out bread-winners in bahing the black sheep." The call was at once responded to, and Betsy marshalled her little force excellently. The procession marched to Gray's Bridge, where the men were still awaiting the approach of the obnoxious strangers. The day was exceedingly cold, and in the interval the women diverted themselves with vocal excretes, whilst their husbands and friends in deliged in a thielde games. A number of musical instruments were provided for the occasion—the whisties; cans and kettles were beafen with stri

our statement of a fortnight ago, that such conduct should be regarded as intimidation, and we trust that in the new Bill it will be so classed. The industrious operative suffers far more from his fellow-workmen than he does from employers. By the former his freedom is restricted in Unionism at every turn, and his net earnings curtailed. At this moment a large contract, involving a quarter of a million sterling, is being carried out in this country, where a handful of Unionists are attempting to compel more than three times their number to work upon terms which would be a loss to them of an average of 4s, a week. Because they have elected to be as industrious as they are able, the "job" in the particular department referred to is tabooed as "black," and for four months two men have been maintained at the cost of the Union as pickets to warn handicraftsmen of the class in question from going to it, whilst the men at work have been "spotted," and will not be allowed when they leave their present employment to begin work again till they have each paid, or consented to pay, the 2t, black mail, which their refusal to be overridden by the local Union regulations reducing their wages has entailed. The question is one of overtime, and the plea of the minority, which the Union is enforcing, is that it is against the regulations of the district. Yet we are told by the Union advocates, alike amongst colliers and ironworkers, as others, that the Unions have had the effect of increasing the earnings of working men. The question is one on which great stress is laid. Upon it the most reliable information that can be obtained is valuable at a time when Unionism is assuming so much, and certain self-styled "friends of the working man" are claiming great things for it. The best testimony may well be looked for from the Trades Union Commissioners. In the just-issued Blue Book, containing the report of those gentlemen, we have it:—

"In those parts of the country where Trades Unions do not prevail there is very much the same furth

in respect of the Dowlais Iron Works, their ultimate remuneration will be higher, and their employment less irregular, at the same time that there is even more freedom of communication with the masters and managers. In such cases emplo determine to drop their men's wages. In such cases employers hesitate long before they op their men's wages. To our certain knowledge colliery proprietors and ironmasters not unfrequently bear an unremu-nerative trade many months without asking their men to share with themselves the loss, even as has been done by the Preston master spinners. And when at length they ask their people to take a needed reduction are we to be told that all the burden is to fall upon capital? As much real hurt is done to the men by the "enquiries" of philo-sophers when employers have resolved upon a form as results from As much real hurt is done to the men by the "enquiries" of philosophers when employers have resolved upon a drop as results from the promised help to men on strike by other orders by workmen, for the result is only to encourage the men "out" to maintain the indefensible ground which they have taken up, but which they must ultimately abandon. Neither the "enquiry" nor the promise will yield substantial results. What but unrest to the working man can come from "philosophical" indications of "the social future of the working classes?" respecting which the Scoteman smartly says:—

"We behold the working man of the future photographed with pre-Raphaelite minuteness. We see him working regularly eight hours a day, always provided with regular work, living in a house of his own, drinking clean water supplied

to him (at the expense of others), attended by a doctor (ditto), benefiting by education (ditto), reading nice books (ditto), visiting an adequate supply of museums and picture galleries (paid for by others), hearing on Sundays and summer evenings in the parks and public places excellent music (ditto), and eating food which other people have been careful to see is good for him. The Professor announces that the workman's lot will not be brilliant, but that, with such means of instruction, amusement, and subsistence gratuitously afforded him, it will be not intolerable, and we quite agree with the phophetic Professor, it will not."

Then, as to the promises of extraneous operative aid, the managers

Then, as to the promises of extraneous operative aid, the managers of colliery and ironworkers' Unions know what that has meant hitherto. In the last ironworkers' strike it meant, even after delegates had been sent the country over, not one penny per member per man out. Yet, buoyed up with promises, the men were kept out from week to week waiting the return of delegates from remote districts. It is acknowledged at Denaby Main that a levy of 3s. 6d. a fortnight has been determined to be required from the Unionist colliers in work for the support of the men "out." Workmen know that their "mates" will not stand being fleeced to this extent long, so the "outs" are invoked not to "betray" the men who are thus helping them by being told that circulars asking for help have been issued to the organised Trades Association, who also are being appealed to by the ten thousand operative spinners of Preston, who refuse to accept what alone they can be paid without ruin to their masters.

Mr. Brown, and Mr. Normansell, and Mr. Caser have now and again shown themselves superior to some of the men of whom they are the acknowledged leaders. It is a cause for regret that they should at the present time be engaged in a struggle the hopelessness of which, despite all the strategies of "spiriting away" some of the new Feoreman, and frightening away others by jeers and threatened violence, the number of men at work at the pits where the "1600 to 1800" were employed is steadily increasing. On behalf of the willing men, we protest against the style of Mr. Brown's allusions to the manner in which the working man's freedom to labour where and at what terms he pleases is being attempted to be destroyed in South Yorkshire and Derbyshire. Adverting to the reception given to the colliers at work described above, Mr. Brown is reported to have said that "the did not know that he was going to find fault with them, but he would tell the men and women that it was a dangerous experiment." And the manner in which it is attempted to coerce men from

said that "he day not know that he was going to fine father that the the hat he would tell the men and women that it was a dangerous experiment." And the manner in which it is attempted to coerce men from returning to work is thus reported:—

"He (Mr. Brow N) had heard that one man had seceded from them. ('He has come back again.') Do not say anything to him. (Another Voice: 'He has gone away.') The further he had gone the better. Several in the meeting requested Mr. Brown to name the man, but the Chairman interposed, and said it would not be wise to mention the man's name. As the reporters were leaving the room the colliers shouted, 'Bywater, Bywater, that's his name.'

It is not, of course, to be imagined that Mr. Brown, when he said this, remembered the practice of Daniel O'Connell, who, when there was a man particularly obnoxious to "the repeal of the Union," was in the habit of warning "the boys" that if they met with that man they were sure not to duck him in the first horse-pond they came to. But we have heard the anecdote repeated at colliers' meetings, and it would not be surprising if Mr. Brown's peaceful allusions to Bywater should be misinterpreted by the Sheffield colliers.

Employers and every other genuine and practical friend of the collier will approve the determination of Messrs. Newton, Chambers, Huntsman, Pope, and Pearson to rid their men and themselves of the intolerable social oppression to which they are being subjected.

LIQUID FUEL.

LIQUID FUEL.

It is now upwards of four years since one of the chief advocates of liquid fuel, in stating his opinion that 42 gallons of oil was quite equal in steam-producing power to I ton of coals, admitted that this required to be proved, and volunteered the assurance that it should be proved. [See Mining Journal, Dec. 24, 1864.] Since that time experiments have been carried on at Woolwich Dockyard and elsewhere; numerons inventors of methods, by which liquid fuel was to be burnt, have come forward to recommend their several inventions; great attention has been devoted to this subject; and another material for the purpose has been introduced to notice—the dead oil, or creasote, obtained as a waste product in the manufacture of naphtha and pitch from the coal tar of gas works. This material is certainly more suitable for use as liquid fuel than any other yet known, since its characters are such as to render it free from any objection on the score of risk, which may fairly be urged against the use of petroleum or parafiin oil. Amid all this activity on the subject of liquid fuel we have not, however, yet met with the promised demonstration that I ton of oil is equal to 6 tons of coal, although this point is one of the greatest importance for deciding the question as to the applicability of liquid fuel in the place of coal for steam navigation. But, meanwhile, a number of discrepant estimates as to the capability of liquid fuel have been put forward, and a still greater number of statements have been made as to the results obtained with it, these being still more discordant than the estimates. The system of converting the oil into the condition of spray before burning it was a great step towards effecting combuction more freely and completely than was at first possible. This system, however, involved the disadvantage of requiring an expenditure of steam which was equivalent to a reduction of the heating power and efficacy of the fuel; and, besides this, the use of a steam-jet for the purpose, though very simpl

ments as to the results obtained with liquid fuel, there is no information as to which mode of expression the figures given are to be understood as referring to. So far for the positive statements, which, instead of proving the astonishing assertion that 1 ton of oil is equal to 6 tons of coal for producing steam, are far from proving that it is equal to even 3 tons. There are, it is true, certain less positive statements, indicating that the larger results have been, or may be obtained; thus, for instance, Capt. Selwyn, upon whom Mr. Richardson's mantle appears to have fallen, informed the Institute of Naval Architects that in one factory 46 lbs. of water were evaporated by 1 lb. of creasote. However, for the present at least, and, perhaps, for a long time to come, this must be regarded, like Lord Dunderstand." At the same time we have some other estimates of the capabilities of liquid fuel, and some other results obtained in trials of pabilities of liquid fuel, and some other results obtained in trials of it, both of which agree in making creasote equal in steam-producing power to one and a-half, or twice as much coal, according to the extent to which the efficacy of the latter may be realised in practice. power to one and a-half, or twice as much coal, according to the extent to which the efficacy of the latter may be realised in practice. This result has also the advantage of having been conducted with the greatest care and regard to accuracy, not on a mere experimental scale, but in a vessel of 500 tons, in a passage from Deptford to Gravesend and back. This fact, and the accordance of the result with the calculated capability of the oil, according to its composition, certainly render it more trustworthy than any other results yet put forward which neither agree with such calculation, nor are supported. forward, which neither agree with such calculation, nor are supported by any sufficient evidence that the observations on which they are

Nothing can be more prejudicial to the successful introduction of

any kind of improvement or novelty than the assertion that it affords advantages which the most slender knowledge of the subject enables one to perceive are fictitious. Such a course is sure to impede rather than facilitate the adoption of suggestions for improvement, or if exaggerated statements be accepted, the result can only be disappointment and disgust. We, therefore, recommend those who are still disposed to urge the adoption of liquid fuel as a substitute for each in steam paying the revise their along in second to the contract of the contract coal in steam navigation, to revise their claims in regard to the effi-cacy of this material, and to the economy to be gained by its use, so that by establishing their recommendations on a safe and rational basis, they may secure for themselves, though late, a title to considera-tion which they have not yet possessed.

THE WATER QUESTIONS IN SOUTH STAFFORDSHIRE.

The evidence of the Government Inspector has yet to be given in The evidence of the Government Inspector has yet to be given in the matter of the inundation at Brierley Hill, but there is no room to doubt that the 6,500,000 gallons of water which got into the pit and immured the men came from old pockets a considerable distance off, at a higher level, and on property not owned by Earl DUDLEY. In all probability, as we last week intimated, it had been pent up a long time, and it would likely have remained so for a much longer time if it had not been for the late heavy rains, which so augmented the accumulations that they burst their bounds one after another, till, rushing along the ironstone and shale seams which underlie the till, rushing along the ironstone and shale seams which underlie the Thick coal, they found an outlet at the foundation of the immense water dam which was laid in those measures. But for the channel which the water had got into, this dam would have been sufficient to keep back all the water that could have come against it, for even now it remains undamaged. It seems difficult to have provided against this form of dam-blowing. We know of no precedent to the Brierley Hill case, any more in respect of the cause than in relation to the happy results, which, and the means that produced them, we dwelt upon last week. About 1864 seven men were drowned, also in the Thick coal workings, at a colliery at Bradley, belonging to Messrs. G. B. THORNEYCROFT and Co.; but in that case the water came upon them when they were driving a heading to a pocket on their own property, and the water came upon them because they got too pear to it.

perty, and the water came upon them because they got too near to it, without having ascertained their progress with a boring-rod.

At Brierley Hill water was known to come from a neighbouring pit belonging to the noble earl; and the pumping-engine had been in to draw it off, and the dam to prevent a too rapid "come" when repairs might be needed to the pump. Together the dam and the pump were effective to the full, and much more water than came at the verset of times was drawn off with 61 stokes of a pump which after were enecuve to the full, and much more water than came at the worst of times was drawn off with 6½ strokes of a pump which, after the accident, was kept on for five days and nights at 9½ strokes. The draining arrangements were so thorough that they had been effected at no less a cost than 25,0004. The evidence of the Government Inspector will afford us another opportunity of adverting to this very interesting case. At present neither has the water been got out, nor the ventilation restored. The workings will, however, he ready for the ventilation restored. The workings will, however, be ready for a thorough examination early next week.

The Tipton Basin difficulty has been temporarily arranged. It is

to be desired that before the permanent arrangement has been made, there will be a thorough investigation of the whole question by scientific and practical men, whom South Staffordshire itself affords.

THE IRON AGE .- In these islands alone, 550 blast-furnaces are THE IRON AGE.—In these islands alone, 550 blast-furnaces are blazing, reducing by their intense heat nearly 12,000,000 tons of iron ore into 4,800,000 tons of metallic iron, which, at its place of production, has a value of about 12,000,000 tons of coal; and to convert the pigiron obtained into bars, rails, and the like another similar quantity of coal is required. This great iron industry is not confined to this country. In France it is no less active, and it boasts of ironworks which rival those of Dowlais, of Barrow, or of Middlesborough. The works of Messrs. Schneider and Co., at Le Creusot, the largest in France, have 50 acres under cover. Here are 15 blast-furnaces with 27 steam engines blowing air for them, and forging iron besides. At the mines and works above 9500 men are employed. Belgium, Prussia, Austria and Sweden are active in this great race; and America is striving, with earnest and honourable zeal, to overtake Europe in is striving, with earnest and honourable zeal, to overtake Europe in the production of iron from her native ore, with her own coal

THE NEW METHODS OF MANUFACTURING STEEL. revival of interest in what may be termed the chemical processes of manufacturing steel having taken place in consequence of the development of the invention of Mr. HEATON, the paper read by Dr. B. H. PAUL before the Inventors' Institute was particularly opportune. In the Supplemental Sheet to this day's Journal we publish a complete report, for which we are indebted to the Scientific Review, both of the paper and the discussion upon it; and as a vast amount of sound practical information was elicited it cannot fail to make the especial claims of the Heaton process more thoroughly understood

the especial claims of the Heaton process more thoroughly understood.

Nitro-Glycerine made Harmless,—Although the immense power of nitro-glycerine as a blasting material has never been questioned, the danger attending its use has entirely prevented its introduction, except in a very diluted form—that is, to saturate woody or other granular substances. In dynamite, however, the great objection is that the power is reduced exactly in proportion to the increased safety secured. To remedy both evils simultaneously, Mr. Horsley, the well-known scientific chemist of Cheltenham, has invented an improved protective matter, which he designates safety nitro-glycerine powder. Mr. Horsley states that the preparation is designed for the safe conveyance of nitro-glycerine or blasting-oil to any part of the world, the great advantage being that it admits of the oil being easily recovered, at any time, and rendered available for the miner's use, even over the hole itself, if necessary, by following certain instructions to be sent with each package. With regard to the safety of the protected nitro-glycerine, the inventor is prepared to submit it to severe tests, and claims that it will not ignite or explode on the application of fire or heat; that it cannot be exploded by a blow on an anvil; and that it cannot be exploded by a percussion-cap fired in a charge of it. More ample details of the invention will be given in a future number of the Journal.

PURIFYING COAL GAS, &C .- Mr. ALEX. ROLLASON, in his improved PURIFYING COAL GAS, &C.—Mr. ALEX. ROLLASON, in his improved process of purifying coal gas and obtaining ammonia from coal gas products, takes peat bog, or any other decomposed vegetable matter, and having disintegrated it, mixes with it strong sulphuric acid, in about the proportion of one part of the latter to three parts of the former, after which it is subjected to a slow heat until it has become charged by the sulphuric acid, or after the peat bog, or any decomposed vegetable matter, has been disintegrated, it is subjected to a heat sufficient to day but not exploying its and the order in the sulphuric acid. posed vegetable matter, has been disintegrated, it is subjected to a heat sufficient to dry but not carbonise it, and the acid is then added. Secondly, he takes clay, mud, or similar siliceous matter, and after burning them so as to expel the carbonic acid they contain, and having disintegrated or ground the burnt matter, mixes with it sulphuric acid, in the same way and proportion as with the peat bog, or any decomposed vegetable matter. Either of the foregoing first and second products are put into ordinary coal gas purifiers, and the gas passing through them is derived of its amounts, which there are ordered. fing through them is deprived of its ammonia, which these products fix, forming sulphate of ammonia. Or they may be mixed with ordinary coal gas water containing ammonia, which water would be subsequently evaporated until the material was saturated with sulphate of ammonia, or hydrochloric or nitric acid may be used instead of sulphuric acid in obtaining the first or second products, so far as re-lates to its being used for coal gas water, in which case muriate, or nitrate, or sulphate of ammonia would be produced.

THE VELOCIPEDE AS A MECHANICAL AGENT.—The practical value of the velocipede as a means of locomotion has been thoroughly dis-cussed in a well-considered paper by Mr. LAUDER, C. E., read before the Liverpool Polytechnic Society. As advantages and disadvantages of biveles, tricycles, &c., are very equally balanced as compared with each other, Mr. Lauder's conclusions may be considered to apply equally to all kinds of velocipedes. The velocipede possesses no advantage; that is to say, a man can, with equal exertion, walk or run quite as far in a day of eight hours as he can travel with a velocipede in the same time. Mr. Lauder, being a velocipedest himself, has given the velocipede all the advantage in the argument that was at all possible, yet he can only show that, although for a journey of a few minutes duration a speed of 24½ miles per hour may be obtained, no more than 30 miles in the day of eight hours can be traversed. Mr Lauder is of opinion that, as a means of travelling, the velocipede has very little chance of coming into use, although as an instrumer to of healthful exercise it is worthy of consideration.

THE NORTH OF ENGLAND IRON AND COAL TRADES.

MIDDLESBOROUGH, APRIL 1.—The quarterly meeting of he North of England Iron Trade was held in the Royal Exchange, on Tuesday. It seemed as if, on account of the intervention of the Easter houdays, there was an unusual amount of slackness in the trade. There were several exhibitors of machinery, models, &c. Messrs. Backhouse and Dixon, of the Cleveland Shipyard, Middlesborough, showed some beautiful models of screw steamers; and Messrs. Rimmington, of Newscatle and Middlesborough exhibited a weeking model of the new castle and Middlesborough, exhibited a working model of the new Anglo-American power hammer, which attracted much attention. They also showed specimens of Pulford's magnetic paints, and House and Gardner's self-lubricating engine and pump packing. Mr. Jones, of Fox, Head and Co., Newport Rolling-Mills, Middlesborough, showed his non-conducting cement for boilers, and the firm displayed a fine case of minerals of the Clayeland district. Mr. A. S. Raka showed his non-conducting cement for boilers, and the firm displayed a fine case of minerals of the Cleveland district. Mr. A. S. Rake, of Newcastle, exhibited in motion the beautiful little model of the "Special" steam-pump, worked by compressed air, which attracted so much attention at the last quarterly meeting. A large one was also shown, kindly lent for the occasion by William Jones and Co., of Middlesborough Chemical Works. These pumps appear to be rapidly coming into favour in high quarters, and we understand that upwards of 800 are now in successful operation for a great variety of purposes, many of them in this district. They are made of all sizes and capacities. Specimens of the patent Peet Valve-Tap, Patent Steam Suet Digester Lubricator, Green's Patent Solid Drawn and Brazed Copper and Brass Tubes, also solid cold-drawn seamless steel tubes, ferrules, bushes, hollow steel spindles and shafting were exhibited. Some of these were very interesting. They are drawn from Frith and Sons' best steel, and vary in thickness from one-thirty-second part to half an inch. The manufacture of these specialties is about to be vigorously pushed by the proprietors, who have purchased and set to work the whole of the patents and machinery of the Hydraulic Tube Drawing and Steel Ordnance Company. Stroudley's patent ramps, or guide plates, for rapidly re-railing rolling stock, were also shown in operation as line of rails height lines line of rails height lines lines of rails height. ley's patentramps, or guide plates, for rapidly re-railing rolling stock, were also shown in operation, a line of rails being laid down for the purpose, and a railway wagon provided, illustrating the certainty and dispatch and saving of time effected in case of a line being blocked by loaded or unloaded trucks being off the rails. They are now in use on the North-Eastern and all the other leading railways (in the kingdom. Samples of the effects of Trayis's natent vegetable in the kingdom. Samples of the effects of Travis's patent vegetable colloid, for preventing and removing incrustation and corrosion in steam-boilers, were likewise shown by Mr. Rake, as well as Ransome's Patent "Free Grit" Grindstones, and other specimens of this interesting scientific discovery. Mr. Rake is also sole licensor for the North-Eastern and Cleveland district for Wilson's Patent Puddling-Furnaces, which have for some time been in successful operation at the Thornaby Iron Works, Stockton, and where their use is being still more extended. The advantages are stated to be great saving in fuel, increased yield, and prevention of smoke. The principle is also applied to land and marine boilers and furnaces of all kinds. The staple iron of the district, pig. realised the best prices, and in the kingdom. Samples of the effects of Travis's patent vegetable

The staple iron of the district, pig, realised the best prices, and was in good demand. The quotations were for No. 1, 49s.; for No. 2, 47s. 6d.; for No. 3, 46s.; and for No. 4, 45s. 6d., net eash, f.o.b. on trucks at works. Deliveries are reported large, and shipments are less restricted. Forge iron is in good demand. The rail mills of the district are in fair work, and the shipbuilding yards continue well off for orders, plates below goescently in square. district are in fair work, and the shipbuilding yards continue well off for orders, plates being consequently in request. Foundries can generally find enough to keep them in work full time. There appears to be a slight turn for the better in the coal trade, and there have been more shipments from the Auckland Valley and South Durham generally at the ports of Hartlepool and Middlesborough. It is so far encouraging to find that several new pits have commenced operations within the past few months in the Dearness Valley, and it is expected that more new mines will shortly be sunk in the neighbourhood of Consett and Shildon. The export trade is on the improve, and is likely to become better before the summer has far advanced

TRADE OF THE TYNE AND WEAR.

TRADE OF THE TYNE AND WEAR.

GATESHEAD, APRIL 1.—On the whole, trade generally shows more animation, and shipbuilding continues very brisk on the Tyne, most firms having plenty of orders in hand. There has been but little change in the coasting trade, but that to the Baltic is now opening, though not with any great spirit, 9%. a keel only being offered for Cronstadt. The greatest demand has been for vessels to load coke for Carthagena and Barcelona. The arrivals have been very moderate, the weather being tremendous in the North Sea since Friday last, which has almost put a stop to sailings. On the whole, the coal trade is decidedly improving, and more confidence is felt as to the coke, gas, and household coal, &c., in future. Most of the coking coal collieries in Durham are well employed; around Spennymoor the colliers have never during the recent depression worked less than eight or nine days per fortnight, and they are now working full time. the colliers have never during the recent depression worked less than eight or nine days per fortnight, and they are now working full time. Many of the gas coal collieries are also working full time, and the house coal collieries are slowly improving. On the west side of Newcastle eight or nine days per fortnight appear to be the rule—that is, at works producing house and manufacturing coal, the coking coal collieries being almost at full work. The steam coal trade still remains in the worst position, but this will, no doubt, shortly improve, as the decided steps taken by the Admiralty Board must give it a great impetus. The only objection ever urged against the North Country steam coal was the production of smoke; its high and quick evaporating powers were never denied, and it has now been proved evaporating powers were never denied, and it has now been proved that the smoke can be very easily avoided by a little care. It will be recollected that when a deputation, sent from the coalowners of this district, waited on Mr. Childers a short time since on the subthis district, waited on Mr. Childers a short time since on the subject of the use of Hartley coal in the Navy, that gentleman showed a great desire to ascertain the merits of the question, and promised that the subject should receive the most careful consideration. The result of this consideration has been, as intimated last week, that justice is to be done to this coal without delay.

The water is now reduced at Hebburn to a depth of nearly 100 fms. from surface, and the High Main seam will shortly be drained there. It will however he present to reduce the water to a considerable.

It will, however, be necessary to reduce the water to a considerably lower depth at Wallsend before the same seam is drained there, as the measures are lower than at the former place. The Cornish engine lately erected at Hebburn is doing excellent work, and reducing

the water very quickly.

The death of Mr. T. W. Jobling, a mining engineer of some eminence, took place a few days ago. His ancestors were viewers, and eventually owners, of the old Hartley Collieries, near Seaton Sluice, six miles north of the estuary of the Tyne. The old Hartley seam was worked there, and proved to be of such excellent quality that the same seam was proved further west, until first the Cramlington Colliery reached this seam, which is nearly twice the thickness it reaches at Hartley, it being only about 3 feet at the latter place and nearly 6 ft. at Cramlington. This occurred about the year 1828, and this was the first important winning in the western part of the great Hartley steam coal field, which has since been occupied by the largest collipsies in the district. collieries in the district. Mr. Jobling was at one time connected with the Jarrow Colliery, and latterly with the Walker and Bebside Col-lieries, the latter having been won, developed, and carried out by him collieries in the district. n a very superior manner.

The visit of Mr. Reverdy Johnson, the American Minister, to New-castle has caused a considerable sensation, and he has been very warmly received by all classes. He arrived on Monday evening, and warmly received by all classes. He arrived on Monday evening, and dined privately with the Mayor. On Tuesday a visit was made to the extensive chemical works of Messrs. Allhusen, and afterwards he received addresses in the Town Hall from the Chamber of Commerce, Iron Trade, Coal Trade. &c.; and in the evening a public banquet was held in the Town Hall, the Mayor, Mr. Morison, being in the chair, and when Mr. Johnson met most of the leading coal owners, ironmasters, and manufacturers, an interchange of sentiments and ideas took place, which was very pleasing to all parties. The great and increasing capabilities of the River Tyne for commerce was most particularly alluded to by Mr. Cowen, M.P., and others, it being noticed that lately vessels had left the Tyne drawing 25 ft, of water, and carrying 125 keels of coals, at least four times the burthen formerly considered very considerable. The great increase in the alkali manufacture, one of the most important staple trades of the district, was also very properly commented upon. This trade of the district, was also very properly commented upon. This trade continues to progress very fast, and a great trade is carried on with the American States, and as Mr. Johnson expressed the opinion that peace will, probably, continue to exist between the two nations, this and other branches of trade may be expected to improve, particularly if the absurd import duties in America were modified or repealed. It appears that those duties injure foreign manufactures, and also the bulk of the people and only expise a small class of

pealed. It appears that those duties injure foreign manufactures, and also the bulk of the people, and only enrich a small class of American ironmasters and other manufacturers.

On Wednesday there was a special train to Tynemouth for Mr. Johnson and his party, where they were entertained at luncheon by the Chairman of the Coal Trade, Mr. Straker, and in the afternoon the extensive iron works and rolling-mills at Jarrow were visited.
To-day Mr. Johnson is to visit Sunderland, where he will inspect that docks and other history of the coal tracest and it is also expected that he docks and other objects of interest, and it is also expected that he will visit the large colliery at Ryhope, where he will see coal workings on a scale of the greatest magnitude, and unsurpassed both as to extent and the science displayed by any similar works on the globe.

REPORT FROM MONMOUTH AND SOUTH WALES.

APRIL 1.—The confirmation of old list prices at the Preliminary Meeting of Ironmasters was a proceeding generally anticipated by both buyers and sellers, and although enquiries have become a little more numerous, still there is not that substantial increase in the requirements of buyers to warrant an advance in the recognised quotations. The rail branch continues in a firm and healthy state, and as there is every probability of the favourable prospects referred to in previous reports being soon realised, there is no doubt entertained of the mills being kept regularly going during the whole of the summer months. A large number of vessels are being laden with rails at the local ports, chiefly for the United States and Russian markets, and by the time they are cleared a considerable reduction will have been effected in the quantities now awaiting shipment. Steamers are also expected to arrive to load rails for the Black Sea and the Sea of also expected to arrive to load rails for the Black Sea and the Sea of has expected to arrive to load rails for the Black Sea and the Sea of Azoff, and for many weeks to come the exports to that quarter will be heavy, as some thousands of tons have to be sent this season to the Muscovite empire. There are more iron freights on offer at the local ports than has been known for years past, which indicates pretty clearly that better times are not far distant. On home account business in the state of the season is the season to the season the season to the seaso ness is quiet, but, as the railway companies have nearly all got over their financial troubles, they will soon be larger buyers. Pigs command a moderate sale. At the Quarterly Meeting of Tin-Plate Makers an advance of 2s. per box was determined upon, to meet the rise which

has taken place in tin.

Dulness characterises the Steam Coal Trade, the demand being below
the average, and the majority of the collieries are on short time. The ironmasters who ship coal have secured some contracts at a price that an ordinary colliery proprietor could not afford to accept without incurring a serious loss. There is a brisker sale for house qualities, owing to the advent of colder weather.

A letter has been published from the Admiralty, stating that the prohibition of the use of North Country coal in the Navy is removed. This may temporarily add to the depression in the steam coal trade, but it is a believed that the order will utlimately have no practical

This may temporarily add to the depression in the steam coal trade, but it is believed that the order will ultimately have no practical effect. The plan of mixing the two coals has been tried more than once before, but the intrinsic superior qualities of Welsh steam have always been so clearly proved that the Admiralty authorities have been obliged after a short trial to revert to the using of Welsh coal alone. The present order looks more like a political sop to our North Country friends than a decision following any real practical inves-

alone. The present order looks more like a political sop to our North Country friends than a decision following any real practical investigation as to the superiority of mixed over Welsh coals used alone. Another serious colliery explosion is to be reported, the scene of the catastrophe being the Mynydd Newydd Colliery, near Swansea. From the evidence at the inquest, it appeared that the explosion occurred in a part of the workings known as the Ebenezer Top Hole. This hole had been driven for the purpose of uniting two parallel stalls, so as to form a communication between them. The thoroughfare not having been sufficiently completed to put up canvas, gas accumulated after the men left work. The deceased, Lewis, incaucumulated after the men left work. The deceased, Lewis, incau-tiously went into the place with a naked light, and the result was an explosion, by which his own life and the lives of two others were sa-crificed. Mr. Thomas E. Wales, Government Inspector of Mines for the district, said he visited the colliery after the accident, and found that the explosion extended but to a small part of the workings. The colliery was in good order, and was well ventilated. The explosion was no doubt caused by Lewis taking his naked light to the working, where a small quantity of gas had accumulated. The jury returned a verdict "That the three deceased met with their deaths from suffocation, produced by the choke or after-damp succeeding the explo

sion, caused by the indiscretion of the lad Lewis,"

The arrivals at Swansea include—the Eta, from Junin, with 135 tons of nitrate of soda, for H. Bath and Son; Gitanilla, from Caba, with 580 tons of copper ore and 75 tons of copper regulus, for Cobre Cempany; Harriet Williams, from Cherbourg, with 180 tons of iron ore, for R. Crawshay.

THE TIN-PLATE TRADE.—The Quarterly Meeting of the trade was held at the Bell Hotel, Gloucester, on Wednesday, Mr. Woodruffe, of the Machen Works, Monmouthshire, in the chair. There was a large attendance of manufacturers, and among the buyers were Nash and Co., Liverpool; and Von Dadelszen and North, London. In the course of a long discussion which took place on the present position and future prospects of the trade, it was stated that, as compared with three months ago, the price of tin has North, London. In the course of a long discussion which took place on the present position and future prospects of the trade, it was stated that, as compared with three months ago, the price of tin has advanced no less than 18%, per ton, and the opinion generally prevailed that a further rise might be looked forward to. It was pointed out that prices that then returned a fair profit to the manufacturer were now quite inadequate, in consequence of the heavy advance in tin. To meet these altered circumstances it was unanimously decided to advance prices 2s. per box, and it was further resolved that at the expiration of existing contracts the make should be reduced 33 per cent. The effect of this, if loyally carried out, will be to prevent the accumulation of stocks, and at the same time restore prices to that position by which something like a fair profit will be secured to the maker. The exports of tin-plates from the United Kingdom in the period embraced from June 1 to March 24 of this year reached nearly 400,000 boxes, which indicates that there is a good and increasing export demand. Three years ago the annual shipments to the American States were about 900,000 boxes, which increased in the succeeding year to 1,300,000 boxes, and last year the total came up up to 1,500,000 boxes. The great and important increase here shown in the American demand would have had a highly favourable effect on prices had it not been for the rapid multiplication of new works, which have more than met the additional requirements of the Americans. ments of the Americans.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

APRIL 1.—The week has, as usual, been a broken one, and but little has been done. The iron works, however, are in about the same state has been done. The from works, however, are in about the same state as they have been reported for several weeks past. Few of them are doing sufficient to keep their hands actively going. The demand for steam coal has rather improved of late, and there has been a little more doing in household qualities for London and the South, still the trade is by no means active. The Sheffield trades, more particularly the heavy branches, are improving, and the prospects are much better than they have been. In South Yorkshire a very fair business is being done the demand for rails toying the powers of some of the is being done, the demand for rails taxing the powers of some of the leading makers, so that for some time to come the mills will be kept fully going. For coal there has been a better enquiry, and a rather leading makers, so that for some time to come the mills will be kept fully going. For coal there has been a better enquiry, and a rather heavier tonnage going to London and the South. The carriage rate by railway to the metropolis is still the moot point with our coalmasters, and strong hopes are entertained that a considerable reduction will shortly take place, as it is stated that the London and North-Western, the Great Northern, and the Midland Railway directors will shortly meet, for the purpose of coming to some arrangement by which the present rates will be reduced. This has been a rather than the community who purchase their productions, of the full value of skill and energy brought to bear upon the industry of the country. The heroic rescue at Brierley Hill has this week been followed by a most lamentable accident at Cradley. The shaft of the Cradley Heath Colliery, of Messra. N. Hingley and Sons, needing some repairs, two doggies—John Willetts and Henry Careless—went down on Wednesday morning to make an examination, and to put right

found necessary, owing to the very great falling off in the quantity of coal sent to London by the principal railway companies, and which has seriously affected their revenue. The trade to Grimsby is only of a moderate character, and no change for the better is anticipated until the Baltic is opened, and which is not expected to be free from the coal of the present search. ice before the end of the present month. There is a little more doing in engine fuel to South Lancashire, and an average tonnage is going from Goole to the home ports.

THE COLLIERY DISPUTES IN SOUTH YORKSHIRE.—In addition to the dispute at Mr. Huntsman's collieries, near Sheffield, matters are fast coming to a crisis at Denaby Main, where the men have been out about three weeks, owing to the manager refusing to employ any hands who are connected with the Miners' Union. The result has been that the company have now about 180 men at work, being fully as many as they require. But the "black-sheep," as they are termed, are subject to a great deal of annoyance in going to and from their work. Whilst at the colliery on Thursday afternoon, we found that the men had to be guarded by a considerable body of police to their house; whilst a number of the old hands, who came up quite close to the gates of the works, taunted the men to such an extent that a fight appeared imminent. One of the new hands remarked that he thought he had a right to sell his labour where he pleased, and that he did not think that the pit was sunk for the purpose of finding work for a certain body of men to the exclusion of all others. On the men proceeding homewards they were preceded by a mob of some hundreds, about 28 of them playing on the whistles and drums. The men were hooted and hissed as they proceeded along, and flags thrust into their faces, and everything possible was done to incite to a breach of the peace. The new men, however, behaved with very good temper, and gave no signs of physically opposing those who insuited them. Judging, however, from what we saw, there does not appear to be the slightest doubt but what there will be a conflict between the two parties—and that of a serious character. The manager stated that the dispute, so far as the company was concerned, had ended—they had as many men as they required, and on Wednesday drew out more coalin a single shift than they had done since the colliery was opened out.

COLLIERY EXPLOSION NEAR WIGAN—TWENTY-EIGHT LIVES THE COLLIERY DISPUTES IN SOUTH YORKSHIRE.-In addition

required, and on Wednesday drew out more coal in a single shift than they had done since the colliery was opened out.

COLLIERY EXPLOSION NEAR WIGAN—TWENTY-EIGHT LIVES LOST.—On Thursday morning an explosion occurred at High Brook Colliery, Ashton-in-Makerfield, belonging to Messrs. Mercer and Evans, whereby 28 persons have lost their lives. The High Brook Colliery has two shafts, an upcast and a downcast, and the seam in which the catastrophe occurred is the Orrell Four-foot. The seam, known to be fiery, has been worked with great caution. All the lamps were locked and examined by the firemen; no collier was allowed to fire a shot except the fireman had first examined his place and given him permission; and care was taken to secure the services of the most competent men as underlookers and their assistants. Richard Gortley, the fireman, commenced his customary examination at four o'clock on the morning of the accident, and afterwards returned to the pit eye to lock the lamps of the colliers when they descended the shaft to their work. Several shots, it is stated, were made ready for firing on the previous ovening, and Gortley was asked to superintend the ignition of these as soon as possible. He went to consult with a brother fireman out the pit bank, and then, descending again, he left the pit eye, and proceeded to the southerly part of the workings, for the purpose of examining the places in order to give the necessary sanction to the firing. Immediately after this the explosion occurred. The force of the blast does not appear to have been felt at any great distance, but in the Immediate neighbourhood of the southerly workings the stoppings have been blown down, and much of the roof has been loosened. The Government Inspector was down in the afternoon, the whole of the workings have one were explored, and 28 in all brought up. It is believed that the accident occurred through blasting, as there was very little fire-damp.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

APRIL 1.—There is usually very little doing in the Iron Trade in the fortnight between the Preliminary Meeting and the Quarter-Day meetings, which take place next week, and this week by no means offers any exception to the rule. On the whole, the works have been doing fully as much during the last week or two, and the feeling as to future prospects is rather more favourable. The more satisfactory reports from the Cleveland district encourage expectation that the flowing wave will reach South Staffordshire. The returns published by the Board of Trade for February show that the exports of iron and steel were decidedly in excess of either of the preceding years, and that the United States were taking very much larger quantities, in spite of the heavy duties by which the ironmasters of that country seek to shut out the iron of Great Britain. There are slight signs of further recovery in the Hardware Trade, but so far there signs of further recovery in the Hardware Trade, but so far there seems little hope that 1869 will witness the restoration of real acti-vity in either this or the iron trade in Staffordshire.

rity in either this or the iron trade in Staffordshire.

The Quarterly Meeting of the Iron and Coal Masters' Association of North Staffordshire has been held to-day at Stoke-upon-Trent. The passing of a resolution that prices should remain unchanged was simply a matter of form. It was stated that there was a steady but by no means brisk trade. Some conversation took place as to the operation of the Factories Acts, and a strong opinion was expressed that they were operating greatly to the detriment of the boys who were deprived of work by their operation, and were in many cases living in idleness; whilst it was noticed that "coal picking," or to speak plainly coal stealing, by boys, was greatly on the increase.

on the increase. The flooding of the Lock's Lane Colliery, at Brierley Hill, which has excited so much attention, has not yet been fully explained, the inquest on the remains of the man who died having been adjourned inquest on the remains of the man who died having been adjourned to permit of a complete examination of the workings. His death was caused, not by drowning, but by inhaling the poisonous gas, a proof by how slender a thread the party of which he was one held to life, which they unquestionably owed to keeping near the edge of the water, and catching the ripples of fresh air which the descending tank forced into the mine. The twelve survivors attended the parish church of Brierley Hill on Sunday, publicly to return thanks to God for their preservation, and near them sat Mr. F. Smith, the Earl of Dudley's chief agent, the mining engineers, and those who were directly engaged in bringing up the poor fellows from their dreary imprisonment. The occasion was one of great solemnity, and the vast prisonment. The occasion was one of great solemnity, and the vast congregation was deeply moved by the allusions of the Vicar to the circumstances. Words are vain to add anything to the force of the circumstances. Words are vain to add anything to the force of the bare facts of the patient endurance, the persevering exertions, and the brave adventure displayed by the rescued and rescuers, but the feelings to which they gave rise were well expressed on Monday evening, by Mr. Rupert Kettle, judge of the Worcestershire County Court, at a meeting in Wolverhampton in connection with the adoption there of the Free Libraries Act. After comparing the meeting and its object—the provision of the means of improvement for all—with the bull-baiting which took place in the town thirty years ago, the

the bull-baiting which took place in the town thirty years ago, the learned gentleman said:

"The working-classes were the richest of the different classes in the kingdom, and all that they wanted was unity to become the most powerful. (Loud applause). He did not mean unity for the purpose of opposing a class as a class, but unity for maintaining their own, and above all, unity for the purpose of using their own. When the class who very properly put down buil-baiting, for listance—which, however, would have gone down of itself if had been left alone—put cown those amusements of the people which they regarded as demoralising, they ought to find them substitutes. He had been told, in connection with movements in which it had been his happiness to take part in Wolverhamption, that there must always be 'howers of wood and drawers of water.' He, however, reminded such people that there was a primeval ordination that every man should work; and if a man shirked his work, pleasure would not come at his call. What he insisted upon, and pertinaciously insisted upon, was that the working class was not worse than any other class, and if the members of it were not so good as those above them it was the fault of those who were above them, and not of those who were called to labour with their hands. What had taken place at No. 27 pit, at the Wallow's Colliery—henceforth, he trusted, of historic memory, alike in respect of the men in the pit, and those who released them—should make anyone proud who could say that he was a hewer of fuel or a drawer of water."

Mr. Kettle, amongst other proofs of the interest he has taken in

pit, and those who released them—should make anyone proud who could say that he was a hewer of fuel or a drawer of water."

Mr. Kettle, amongst other proofs of the interest he has taken in the working-classes, has for some years acted as umpire over a joint council of masters and men representing the building trades of Wolverhampton, which was formed for the purpose of settling disputes by argument and fair consideration instead of by strikes and lock-outs, and which during several years has been completely successful. It is satisfactory to find that Mr. Kettle is about to meet Mr. Mundella, the member for Sheffield, whose success in organising a system of arbitration for avoiding strikes at Nottingham is so well known. The two gentlemen will compare the respective plans which they have adopted, and mutually consider how far the best features of each may be combined for accomplishing the end in view—the prevention of the economic and social wars which have so greatly paralysed our industry, and have deprived masters and men,

what was out of order. For this purpose they descended about half-way down the shaft, and as soon as they had done what was necesway down the shaft, and as soon as they had done what was necessary, were drawn up in answer to their signal. Instead of the skip, however, stopping when near the surface, it ascended at full speed to the pulley. One of them attempted to jump out, and fell down the shaft, a depth of 100 yards, and was literally dashed to pieces. The other was thrown upon the surface, but so seriously hurt that his recovery is regarded as hopeless. The engineman, Benjamin Danks, has been taken before the magistrates and remanded. Until the case has been officially enquired into it is better to better to enter the surface. has been officially enquired into, it is better to abstain from giving any explanation of this sad accident. It, however, with the Brierley Hill accident, suggests a subject well worth the attention of the Mid-Hill accident, suggests a subject well worth the attention of the Midland Institute of Mining Engineers. Suppose some competent member would prepare a paper on a particular class of accidents—say flooding of mines—show how, in various instances, they have occurred, how an irruption can best be dealt with when it does take place, what is best for those imprisoned to do, and how best they may be rescued. Much valuable practical experience might thus be made common property, shared not only by managers, but also by the men themselves, who may be the first, if instructed, to note signs of danger, whilst they are deeply interested in the seconding of the best means of saving their lives under certain circumstances.

means of saving their lives under certain circumstances.

At the Tunstall Police Court, to-day, Mr. Wm. Simpson, the proprietor of a colliery at Bucknall, was charged by the Messrs. Alcock, owners of a neighbouring estate, with "stealing" 1000 tons of coal, worth 2001. The proceedings were taken under 23d and 24th Viotan, 38, the offence charged being that the defendant wilfully works beyond his own boundary, and took away a part of the 8. It cames beyond his own boundary, and took away a part of the 8-ft. seam, known as the Cockshead coal. The only evidence adduced was that of Mr. W. S. Coc, mining engineer, who had surveyed the trespass from a new shaft sunk by the proprietors of the estate into which it was alleged defendant had extended his workings. The defence is that the defendant had no felonious intention, and the case, which was adjourned, has not yet advanced far enough to afford any ground for forming a judgment on this point beyond the mere fact of working beyond the boundary. Within a few years two cases of the kind—one at Dudley and one at Darlaston—have been tried in this county. The general tradition in South Staffordshire is that before the offence was rendered penal by statute it was very general indeed.

DUDLEY.—The iron works, with some few exceptions, have been kept pretty well in gear during the week, but some of the manufacturers of fluished iron complain of orders being short, and only coming in, as it were, from "hand to mouth." The current prices of Staffordshire pleyiron are:—All mine, hot blast, 3l. 12s., 6d. to 3l. 16s.; cold blast, 4l. 5s.; best grey forge, 3l.; mottled, 2l. 17s. 6d.; melters, No. 1 and 2, 3l.; hydrate pigs from 3l. 10s. to 4l., according to the brand; other sorts according to make and quality. Preparations are being made to re-light some more furnaces on the principle of altering the mouth of the furnaces so as to utilise the gases. The waste of fuel under the ordinary plan of smelting iron amounts yearly to many thousands of tons, in South Staffordshire and East Worcestershire, but there seems to be a desire on the part of many of the makers of pig-iron to check this great loss in future. The majority of them have to buy a considerable portion of their coal and Ironstone; hence the stern necessity has arisen that they must either economise in the cost of the "make" or give up, for it is manifest they cannot go on at a profit. Many have succumbed, and others, probably, will follow in train. (There are fifteen furnaces west of Dudley that have either been demolished or put out of blast on account of the contiguous mines being exhausted.—Wolverhampton Chronicte.

REPORT FROM SCOTLAND.

MARCH 31.—The lowest price of Pig-Iron for the year was reached yesterday, when, although a good business was being done, 52s, 41d, was accepted for some lots, but the market closed rather firmer, Some of the makers are making up parcels of warrants and sending them into store, and these coming upon the market, in addition to what speculators held and are now disposing of, are bringing down prices, and perhaps 51s. will be touched before the market takes a permanent turn. In making an inspection of makers' stocks at the prices, and perhaps 51s. will be touched before the market takes a permanent turn. In making an inspection of makers' stocks at the Monkland Canal basin to-day we notice that Carabroe brand seems to be the lightest, there being larger stocks of Summerlee, Gartsherrie, and Langloan brands than of the former. In addition to a more than average shipping demand for Scotch pigs, manufacturers of malleable iron and founders in this neighbourhood are estimated to be melting fully 1500 tons of pig a week more than they were doing at the beginning of the year; and, were it not that pigs are in plethora, and makers, for want of demand, had stored warrants on their own account, which were at once laid on the market, prices would have gone up, in all probability, to something like 55s. per ton. Yesterday the market rallied, and 52s. 6d. cash, and 52s. 9d. one month, ruled at the close. The shipments of the week amounted to 13,395 tons, against 9825 tons in the same week last year, Ardrossan and Greenock giving 4799 tons of the former amount, a large portion of tons, against 9825 tons in the same week last year, Ardrossan and Greenock giving 4799 tons of the former amount, a large portion of which was carried by the first detachment of the Canadian fleet. The Middlesborough imports till date were 17,605 tons, against 26,551 tons, being a deficiency on the first quarter of 8946 tons. To day the market became buoyant, and 10,000 tons were done at 528,9d, up to 53s. cash, and 53s. to 53s. 3d. one month, closing buyers 53s. cash, and 53s. 3d. one month, sollers 12d. per ten higher. No. 1, gm.b., 53s. 9d.; No. 51s.; Gartsherrie, 60s. 9d.; Coltness, 61s.; Glengarnock, 55s.; Langloan, 54s. 6d. Malleable Iron, on account of shipbuilders being now well manned, is in extensive demand for shippuilding purposes, and every mill that can turn out this description of iron is in requisition. The trade in bars is also good, and one ironfounding firm is going on with a contract for railway chairs for India, which will keep them fully employed for 12 months to come. Large makers of cast-pipes have also engagements for many months, but the smaller makers and engineers' founders are rather quiet. Blochairn, Glasgow, Govan, and North British brands are 71.; Coats, Drumpeller, Dundyvan, Monkland, and Muirkirk, 61. 153.; Clifton, Coatbridge, Phœnix, and Rochsolloch, 62. 12s. 6d., f.o.b. here, less 5 per cent. Railway chairs, 75s.

The Coal Trade is not a whit more hopeful than it has been for the

past months of this year, and while there is an average shipping de-mand the home trade has been very restricted, so that the orders for spring shipment were fought and scrambled for on such terms that it was almost no object for anyone to have them. The trade has not been so bad for 20 years. The shipments from the ports for the week just ended were 22,450 tons, against 22,535 tons same week in 1868, The condition of the miners is most deplorable, and instead of seek-

The condition of the miners is most deplorable, and instead of seeking to better their position by augmented activity, they are still relying to a great extent on the virtue of strikes. The Conference, which fell to be held here on the 29th inst., has been postponed side, till a "better organisation" of miners has been effected. Mr. McDonald is said to be progressing slowly towards convalescence.

The prospecting which has been pursued over Sutherland and the adjoining county of Caithness for gold has had a favourable result, especially about Dunbeath and Berriedale. The Duke of Portland, however, has placed "watchers" on his grounds at the latter place to prevent "digging," while the latest news to hand brings the joyful intelligence that the Duke of Sutherland has thrown open the strath of Kildonan to the labours of those who "thirst for gold." The gold found in the Berriedale strath is said to be rougher and larger than that in the Kildonan estate, and more plentiful, but it is "watched," than that in the Kildonan estate, and more plentful, but it is "watched," to the annoyance of the whole digging fraternity, who threatened to visit the place in the face of the prohibition. To this menace the Duke of Portland replied by presenting a petition to the sheriff for an interdict against about 30 persons from Dunbeath, Latheron, and neighbouring districts who had either visited Berriedale, or threatened to do so, and the petition has since been served upon them. Of course, this settles the matter in the meantime. It is generally understood that up till now there has been between 4004, and 5004, worth of gold found; the price given for it is 41, an ounce. A nugget has been discovered weighing about 3 ozs. The opinions of those who designate themselves "experienced diggers" differ as to the probable value of these fields; and the quantity found, considering the number of searchers engaged, would not warrant the supposition that in the North we only had to "open into the hills a spacious wound, and dig out ribs of gold." Whatever the future may do, the past will not more than barely remunerate for the labour spent in the search. Shipbuilding on the Clyde is enjoying a very large share of the work which was formerly done in English shippards. This week Hill and Co., Port Glasgow, have contracted to build an iron ship of 1100 tons for Mr. Potter, London. to do so, and the petition has since been served upon them. Of course,

1100 tons for Mr. Potter, London.

LONDON GENERAL OMNIBUS COMPANY.—The traffic receipts for ne week ending March 28 amounted to 94601. 19s. 10d.

A NGLO-MEXICAN MINT COMPANY.—
4. Finsbury-place South. March 24, 1869.
Notice is hereby given, that the ANNUAL GENERAL MEETING of shareholders in this company will be HELD at the office, as above, on TUESDAY,
the 6th day of April next, when one director will be elected in the place of H.
W. Schneider, Esq., who goes out by rotation, but is eligible for re-election,
and will be proposed accordingly. The chair will be taken at One o'clock preclsely.

THE FORTUNA COMPANY (LIMITED).—Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of the shareholders in this company will be HELD at this office on THURSDAY, the 8th April next, at half-past Two o'clock P.M., to receive the accounts, balance-sheet, and reports of the directors, auditors, superintendent, and mining agents for the half-year ending 31st December last. To elect three directors in the place of William Cox, Robert Palgrave, and Richard Taylor, Esqrs., who go out of office by rotation, but who are eligible, and offer themselves for re-election. To appoint two auditors for the ensuing year: James T. Dorington and Charles Roberts, Esqrs., who are eligible, offer themselves for re-election. And for general business, as authorised by the Deed of Settlement.

By order of the Board,

J. SWAFFIELD, Secretary.

5, Queen-street-place, Upper Thames-street, London, March 31, 1869.

THE ALAMILLOS COMPANY (LIMITED).—Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of the shareholders in this company will be HELD at this office on THURSDAY, the 8th of April next, at a quarter to Two P.M., to receive the accounts and balance-sheet, with reports from the directors, auditors, superintendents, and mining agents, for the half-year ending December 3i, 1883. To elect two directors in the place of Robert Henty and Charles Morris, Esyrs., who go out of office by rotation, but who are eligible, and offer themselves for re-election. To appoint two appears, who are eligible, offer themselves for re-election. And for general business, as authorised by the Deed of Settlement.

By order of the Board,

5, Queen-street-place, Upper Thames-street, London, March 31, 1869.

THE LINARES LEAD MINING COMPANY (LIMITED).—
Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of the shareholders in this company will be HELD at this office, on Tilurs-DAY, the th April next, at One o'clock P.M., to receive the accounts, balance-sheet, and reports of the directors, auditors, superintendents, and mining agents for the half-year ending 31st December, 1868. To elect three directors in the place of William Cox, John Phillips Judd, and Robert Henty, Eagrs, who go out of office by rotation, but who are eligible, and offer themselves for re-election. To appoint two auditors for the ensuing year: Robert Palgrave and J. R. Peill, Esqus, who are eligible, offer themselves for re-election. And for general business, as authorised by the Deed of Settlement.

By order of the Board,

By Queen-street-place, Upper Thames-street, London, March 31, 1869.

THE LAGUNA SILVER MINING COMPANY (LIMITED).—
Notice is hereby given, that the SIXTH ORDINARY GENERAL MEETING of the company will be HELD at No. 36, King William-street, London
E.C., on WEDNESDAY, April 7th, 1869, at Two o'clock P.M., for the purpose of
receiving the directors' report and accounts, and the election of a director and
anditor.

By order of the Board,
ECORGE E. HOOKE, Secretary.

by order of the Board, GEORGE E. HOOKE, Secretary. 36, King William-street, London, E.C., March 22, 1869.

£400,000 LOAN.

TROUVILLE ASSOCIATION (LIMITED).

THE SUBSCRIPTION LIST will be CLOSED on WEDNESDAY, the 7th April Instant, up to and inclusive of which day APPLICATIONS for the SEVEN PER CENT, MORTGAGE DEBENTURES will be RECEIVED by the BANKERS, viz.:—

Messrs. HERRIES, FARQUHAR, AND Co., St. James's-street, London; and Messrs. ROBARTS, LUBBOCK, AND Co.,

Lombard-street, London.

By order, H. NANSON, Secretary ad interim. Trouville Association (Limited), 26, Old Broad-street, E.C.

BRAGANZA GOLD MINING COMPANY (LIMITED),

IN THE PROVINCE OF MINAS GERAES, BRAZIL.

Capital £30,000, in 50,000 shares of £1 each.

Deposit for registered shares 2s. 6d. per share on application;
2s. 6d. on allotment.

Calls not to exceed 2s. 6d. per share, nor to be made at intervals of less than three months.

Deposit for fully paid-up scrip (to bearer) 2s. 6d. per share on application; the balance of 17s. 6d. on allotment.

CHARLES MORRIS, Esq., Director of the United Mexican Mining Company.

BANKERS.
THE CONSOLIDATED BANK, Threadneedle-street, and its Branches.

BROKERS.
Messrs. GEORGE BURNARD and Co., 69, Lombard-street, E.C.
SECRETARY (pro tem.)—WILLIAM EDWARDS, Esq.

OFFICES,-No. 4, COLEMAN STREET BUILDINGS (48A), MOORGATE STREET, LONDON, E.C.

The Braganza Company's Mine is situated (as shown by the map on the prospectus) about midway between the 8t. John del Rey Company's Mine, Morro Velho, and that of the Den Pedro North del Rey Company. In the same district are also the celebrated Gongo Soco (which has yielded gold to the value of £1,60°,00° sterling) and the Rossa Grande and Taquaril Mines.

Captain William Williams, who resided within two miles of the Braganza Company's Mine for ten years, and knows it well, reports of it—"In all my travels through South America and Australia I never saw so large blocks of quarts from any lode so rich in gold as those from this mine."

Six bags of the ore have been assayed by Messra. Johnson, Matthey, and Co., and yielded rather over 22 ozs. of gold to the ton of ore. The ores of the other profitable mines in the district yield, on the average, only 1 oz. of gold per ton, out of which it is well known very large dividends are paid.

The mine stands high and healthy, and, being an open cutting, no pumping machinery will be required. Much preliminary work has been aiready done, and returns may be made as soon as the reducing apparatus is crected. There is abundance of labour, provisions, water, and pasture.

The total capital required to purchase and work the mine on a moderate scale is estimated at only £26,00°, and the net yearly profit from working on that scale it is calculated will amount to £28,256, or over 100 per cent, per annum on the capital mployed. More extended workings would yield even a larger profit.

Prospectuses, with maps and full particulars, and forms of application for

Prospectuses, with maps and full particulars, and forms of application for shares, may be obtained of the Secretary or Brokers, as above.

CHANGE OF NAME. THE ASSOCIATION FOR THE PREVENTION OF STEAM-BOILER EXPLOSIONS.

ESTABLISHED 1854.

OFFICES,-41, CORPORATION STREET, MANCHESTER.

PRESIDENT-WILLIAM FAIRBAIRN, Esq., C.E., F.R.S., LL.D., &c. CHIEF ENGINEER-MR. LAVINGTON E. FLETCHER, C.E.

At the last ANNUAL MEETING, held in the Town Hall, Manchester, on Tuesday, March the 9th (WILLIAM FARBAIN, Esq., LL.D., &c., in the chair), the title of the association was modified as follows:—"THE MANCHESTER STEAM USERS ASSOCIATION FOR THE PREVENTION OF STEAMBOILER EXPLOSIONS, AND FOR THE ATTAINMENT OF ECONOMY IN THE APPLICATION OF STEAM," so that it may be cited in brief—

THE MANCHESTER STEAM USERS' ASSOCIATION.

THE MANCHESTER STEAM USERS' ASSOCIATION.
This association undertakes the periodical inspection of steam-bollers, with a view of preventing explosions, and gives a pecuniary guarantee to the amount of £300 on each approved boller, so that in the event of explosion, whether it arise from collapse of the furnace tubes, rupture of the shell, or failure of any part of the boller whatever, all damage done thereby, other than by fire, will be made good to the extent of £300.

The association also assists its members by advice on the construction of new bollers, and other matters relating to economy and safety in the use of steam. Terms: Oxe guinzel and and the pera annum per bollers within 40 miles of Manchester, accessible by rail. Beyond that distance, special arrangements made according to circumstances.

Two guinzels per annum for corresponding members, who receive copies of the Association's Monthly Report, and have the opportunity of consulting the Chief Engineer.

41, Corporation-street, Manchester, March, 1869.

BRITANNIA LIFE ASSURANCE AND INVESTMENT COMPANY.

CHIEF OFFICE .- 1. LANCASTER PLACE, STRAND, LONDON,

This company has inaugurated a NEW PLAN of POPULAR ASSURANCE for miners, by forming a MINERS' SICK AND ACCIDENT FUND.
Policies will be issued without respect to age at a uniform quarterly pre-

mium of 5s.

Managers of mines and other puble works are carnestly requested to appoint correspondents in each of their works for enrolling members.

Apply, for further information, to—

PERCIVAL HINDMARSH, Secretary.

PERCIVAL HINDMARSH, Secretary.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN RE SOUTH CONDURROW MINE.

IN RE SOUTH CONDURROW MINE.

TO BE SOLD, pursuant to an Order made in the Cause of King v. McIntosh and Others, dated the 17th day of February, 1869, at the Registrar's Office, at Truco, on Wednesday, the 7th day of April next, at Twelve o'clock at noon precisely, the 100 (6123rd) PARTS or SHARES of the defendant, George McIntosh; the 80 (6123rd) PARTS or SHARES of the defendant, Jane Barlow; the 40 (6123rd) PARTS or SHARES of the defendant, John Ewen; the 12 (6123rd) PARTS or SHARES of the defendant, John Ewen; the 16 (6123rd) PARTS or SHARES of the defendant, Frederick Sharp; the 10 (6123rd) PARTS or SHARES of the defendant, Frederick Sharp; the 20 (6123rd) PARTS or SHARES of the defendant, Frederick Sharp; the 10 (6123rd) PARTS or SHARES of the defendant, William McGregor; the 10 (6123rd) PARTS or SHARES of the defendant, James Walton; the 5 (6123rd) PARTS or SHARES of the defendant, William McGregor; the 10 (6123rd) PARTS or SHARES of the defendant, J.G. Smith; the 10 (6123rd) PARTS or SHARES of the defendant, J.S. Smith; the 10 (6123rd) PARTS or SHARES of the defendant, J.S. Josiah Shepherd; the 10 (6123rd) PARTS or SHARES of the defendant, Jos. Josiah Shepherd; the 10 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 5 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 5 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 5 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 5 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 5 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 5 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 6 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 6 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 6 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 6 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 6 (6123rd) PARTS or SHARES of the defendant, John Wilkinson; and the 6 (6123rd) PARTS or SHARES

f and in the said MINE.

JOSEPH ROBERTS, Solicitor, Truro

(Agent for Messrs. R. W. Childs and Batten, 25, Coleman-street,
London, Plaintif's Solicitors).

Dated Registrar's Office, Truro, 25th March, 1869.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

TO BE SOLD, pursuant to an Order made in a Cause of Dunsterville v. Crawford and Others, and dated the 5th day of March last, BY PUBLIC AUCTION, at the Registrar's Office, at Truro, on Wednesday, the 14th day of April inst., at Twelve o'clock at noon precisely,—
10 (908th) PARTS or SHARES of the defendant, Duncan Crawford;
25 (908th) PARTS or SHARES of the defendant, James Davle;
6 (908th) PARTS or SHARES of the defendant, Mary Jane Hambly; and the 1 (908th) PART or SHARES of the defendant, R. W. James,
Of and in the said MINE.

(Agents for S. T. G. Downing, Plaintiff's Solicitor, Redruth).
Dated Registrar's Office, Truro, April 1st, 1869.

Stannaries of Cornwall.

In the Court of the Vice-Warden of the Stannaries.

Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the WHEAL NORTH GRYLLS MINING COMPANY (LIMITED).—ALL CREDITORS or CLAIMANTS of the ABOVE COMPANY, who have not received notice from the Registrar of the said Court that their claims have been already admixted, are kereby REQUIRED to COME IN and PROVE their SEVERAL DEBTS or CLAIMS at the Registrar's Office. Truro, on Thursday, the 18th day of April Instant, at Eleven o'clock in the forenoon, or in default thereof they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such proof. And for the purpose of such proof they are either to attend in person, or by their solicitors or competent agents, or (unless such attendance be required by the Registrar's summons) they are to send affidavits of their several debts or claims to the Assistant Registrar of the Court, at Truro, such affidavits being aworn either before some Commissioner of one of the Superior Courts, Iawfully authorised to take and receive affidavits and affirmations.

E. SMIRKE, Vice-Warden.

FREDERICK MARSHALL, Assistant Registrar of the said Court, Truro, Cornwall.

Dated Registrar's Office, Truro, April 1st, 1869.

In the Court of the Vice-Warden of the Stannaries.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the WHEAL FURSDON MINING COMPANY.—By direction of His Honour the Vice-Warden, Notice is hereby given that on Wednesday, the 14th day of April instant, at Eleven o'clock in the Forenoon, at the Registrar's Office, at Truro, in the county of Cornwall, this Court will PROCEED to MAKE a CALL of FIFTEEN SHILLINGS PER SHARE on all the contributories of the above

All persons interested therein are entitled to attend at the time and place aforesaid to offer objections to such call.

E. SMIRKE, Vice-Warden.
FREDERICK MARSHALL, Assistant Registrar of the said Court.

Dated Truro, April 1st, 1869. In the Court of the Vice-Warden of the Stannaries.

Stannaries of Cornwall.

Note MATTER of the COMPANIES ACT, 1862, and of the BOSWORTHEN AND PENZANCE CONSOLS UNITED MINING COMPANY (LIMITED).—By direction of His Honour the Vice-Warden, Notice is hereby given that on the 15th day of April Instant, at Eleven o'clock in the forenoon, at the Registrar's Office, at Truro, in the county of Cornwall, the Court will PROCEED to MAKE a CALL of SIX POUNDS PER SHARK on all the contributories of the above-named company settled under Class A. All persons interested therein are entitled to attend at the time and place aforesaid, to offer objections to such call.

E. SMIRKE, Vice-Warden.
FREDERICK MARSHALL, Assistant Registrar of the said Court.
Dated Truro, April 1st, 1869.

TO SPECULATORS.

SLATE QUARRIES FOR SALE IN THE ISLE OF MAN. HOUSES AND MATERIALS, &c.

MR. RABY respectfully announces that he is instructed by the Liquidator to SELL, BY AUCTION, on Wednesday, April 21, 1869, all and singular the extensive SLATE QUARRIES belonging to the MANX SLATE COMPANY (LIMITED)

MANX SLATE COMPANY (LIMITED),
Situate at GLENRUSHEN, in the parish of PATRICK, in the ISLE OF MAN.
The quarries are held under a lease from the Crown, dated 12th July, 1863, for 21 years, at a royalty of 1-16th, with a minimum royalty of £50 per annum, to merge into the royalty when it exceeds that amount, with a dead rent of £1 per annum.

The grant is very extensive, containing an area of 6906 acres, all in the clayslate formation. The quarries have been wrought by means of galleries in the side of the mountains, from which large quantities of roofing state have been raised and sold. They are supplied with all the necessaries for carrying on an extensive business, the PLANT consisting of railways, water-wheels, with slate-sawing machine, tools of every kind required, quantities of railway bars, unmerous wagons, cart, stable utensils and horse gearing, smithy implements, contents of joiners' shops, furniture of offices and manager's room, saw-mill machinery, balks, shaft heads and other timber, water-wheel (20 ft. in diameter, 3 ft. 3 in, face), boxes, trough (676 ft.), scrap iron, &c. &c.

N.B.—The whole will be offered as one lot, and, if not sold, will there and then be put up in separate lots to suit the convenience of purchasers.

Capt. CAMERON, of Glenfaba House, near Peel, will show the property, and give any further information required; also any information required, and abstract of title, &c., will be given on application to Silas Evans, Esq., Liquidator, at 23, Waring-street, Belfast.

Catalogues of plant may be had for a stamped envelope from the Auctioneer, Douglas, Isle of Man.

The auction will take place at the office in the quarry, at 11 o'clock, prompt.

ouglas, Isle of Man. The auction will take place at the office in the quarry, at 11 o'clock, prompt. CLEVELAND DISTRICT.

TO IRONMASTERS AND CAPITALISTS VALUABLE IRONSTONE PROPERTY FOR SALE.

VALUABLE IRONSTONE PROPERTY FOR SALE.

TO BE SOLD, BY PRIVATE CONTRACT, a VALUABLE IRONSTONE LEASEHOLD PROPERTY in the CLEVELAND DISTRICT, near a shipping port, and intersected by two main lines of railway. The mine is in full working order, and capable of a very large production; the property includes COTTAGES, WORKSHOPS, PUMPING and WINDING ENGINE, PLANT, TOOLS, &c. There is an excellent site at the mine for the cretion of furnaces and rolling mills. Iron of excellent quality can be made on the spot at a lower price than in any other district, and from it large supplies are now regularly sent to Scotland and Wales.

The property has to be sold in consequence of the death of the proprietor, but the executors are willing to allow a portion of the purchase-money to remain on security.

on security.
Further particulars may be obtained from Messrs. G. A. CRAWLEY, ARNOLD, and GREEN. Solicitors. 20, Whitehall-place, London.

NORTH DEVON SILVER-LEAD MINE, COMBMARTIN, NEAR ILFRACOMBE.

COMBMARTIN, NEAR ILFRACOMBE.

TO BE SOLD, BY PRIVATE CONTRACT, in One Lot, the WHOLE of the MACHINERY of the above mine, consisting of a 28 and 55 in. Sims' combined cylinder ENGINE, with 10 ton tubular BOILER; 50 fms. 8 and 9 in. PUMPS; a WATER. WHEEL; ORE CRUSHER; 4 heads STAMPS; and all other materials necessary for the working of the mine, the whole of which is in excellent condition.

A renewal of the lease, comprising more than 500 acres, may be obtained on very easy terms.

The ward of the very easy terms.

The mire is well situated in regard to the shipment of coals, ores, &c., and contains very productive silver-lead lodes, one of which was for some time worth more than £100 per fathom.

Apply to Mr. THOMAS FIDLER, Newbury.

NORTH WALES-QUEEN'S FERRY, FLINT. CLOSE TO THE RAILWAY.

TO BE SOLD OR LET, DESIRABLE FREEHOLD MANUFACTURING PREMISES, with ENGINE-POWER and LAND.—A plot of about one acre, with substantial factories, englue-house chimneys, stable, outbuildings, and sheds, suitable for any manufacturing purpose. ENGINE of most recent construction, and BOILER nearly new.

For further particulars, apply to JOHN TEMPLE, 32, Redcross-street, Liverpool.

TO CAPITALISTS AND OTHERS FAMILIAR WITH COPPER MINING.

TO CAPITALISTS AND OTHERS FAMILIAR WITH COPPER MINING.

RICH VEINS OF COPPER ORE (Sulphuret and Grey) have
been FOUND on the BANKS of the NiPisiGUIT RIVER, Province of
NEW BRUNSWICK. The grey ore yielded on analysis in England 60 percent,
of copper. The veins are from a few inches to 2½ feet wide. The Harbour of
Bathurst is but thirteen miles distant, and the tract of the Intercolonial Railway, now in course of construction, about six.
The proprietor of the land, being unacquainted with mining operations, is
DESIROUS either TO SELL the PROPERTY on moderate terms, or to JOIN
an EXPERIENCED PARTY or COMPANY in WORKING these LODES. Indications of other mineral lodes are to be found at various places within a circuit
of 16 to 20 miles, chiefly in wild Crown lands, the right to which might be obtained on easy terms, if early steps be taken with that object, before they attract
more general attention.
Further information may be obtained on application to Henry W. Baldwin.

nore general attention. Further information may be obtained on application to Henry W. Baldwin, Esq., Bathurst, New Brunswick. Bathurst, N.B., 5th February, 1869.

FOR SALE, BY PRIVATE TENDER, the LAPILLA PYRITES MNE. Province of HUELVA (within one and a-haif mile of the Tharsis Rallway), SPAIN.

This mine comprises FOUR PERTINENCIAS or SETTS of CUPREOUS SULPHUR PYRITES of the finest quality, fully opened out, and capable of producing at present 1000 tons per month, which quantity can immediately be doubled by further development of the ground.

The lode has been opened out on the "pillar and room" system of mining, proving so far 200 yards in length, 48 yards wide, depth known 30 yards of solid mineral.

The situation is well adapted for utilising any poor ores by the cementation

process.

Ten thousand tons of this pyrites have been supplied to Messrs. John Hutchinson and Co., Chemical Manufacturers, Widnes, Lancashire, who will testify to the value of the mineral.

Further particulars may be obtained by application to Sydney Young and Co., 33, Gracechurch-street, London; John Richardson, 4, Clarence-buildings, Manchester; or James M. Burnyp, Newcastle-upon-Tyne, with one of whom the tenders must be lodged on or before the 1st May, 1869.

NORTHAMPTONSHIRE IRON ORE.

TO BE LET, on royalty, ONE HUNDRED ACRES of IRON ORE, about seven miles from NORTHAMPTON. The IRONSTONE has een proved, and is of the best quality, lying near to the surface. It is most convenient for working, and of easy access from the Northampton and Peterborough Railway. The nearest station to the property is Castle subby

Ashby.
For further particulars, apply to Messrs. THYNNE and THYNNE, 11, Great George-street, Westminster, S.W.; or to Mr. SAMUEL BAILEY, Mining Engineer, The Pieck, Walsali.

A FESTINIOG SLATE QUARRY ON SALE

THE BWLCH-Y-SLATER SLATE QUARRY, situated in the parish of FESTINIOG, and in the centre of that well-known slate district, is NOW ON SALE, BY PRIVATE TREATY, owing to the death of

district, is NOW ON SALE, BY FRIVATE TREATY, owing to the death of the late proprietor.

The quarry produces slates of first-class quality, of which there is apparently an inexhaustible supply. It is provided with the requisite plant for being properly and profitably worked, and has already been worked to a profit, and is parted with solely owing to the death of the proprietor. It is situated close to the Portmadoc and Festiniog Railway.

For particulars, apply to Mrs. Williams, Bennarfawr, Dyffryn, Carnarvon.

VALUABLE GREEN SLATE QUARRIES TO BE LET. TO BE LET, BY TENDER, the WHOLE of those SPLENDID GREEN SLATE QUARRIES, known as—

THE BUTTERMERE SLATE QUARRIES. In CUMBERLAND, which comprise, amongst others, the HONISTER CRAGG QUARRY, the EWE CRAGG QUARRY, and the DUBBS QUARRY.
These quarries are about equi-distant from the towns of Cockermouth and Keswick, whence there is railway communication to the sea and to all parts of Great British.

Keswick, whence there is railway communication to the sea and to an parts of Great Britain.

The slate produced from the quarries is of a beautiful "sea-green" tint, and its well-known durability renders it peculiarly suitable for the roofing of churches, public buildings, and mansions. Valuable veins of slate and flags exist in connection with those already worked, and may be included in the tenders. The quantity capable of being raised is practically illimitable.

Tenders will be received for the whole of the quarries, or for any of them separately. The owner does not blind himself to accept the highest or any tender. To capitalists such an opportunity of investment is seidom offered, and an early visit is solicited.

To view, apply to Mr. L. NEWBY, "The Castle," Cockermouth. Further particulars may be obtained of the undersigned, to whom tenders may be addressed until the 20th April next.

WILLIAM J. CLUTTON, Land Agent, York.

York, March, 1869.

NORTH WALES.

REEN AND BLUE SLATE QUARRY.—The WHOLE or ONE HALF of one of the FINEST QUARRIES in WALES FOR SALE, Within 150 yards of a railway station, on a main line of railway, and within 154 mile of a shipping port, accessible by the same line.

For price and particulars apply to Mr. THOMAS HARVEY, St. Clement's House, St. Clement's lane, London. March 20, 1869.

TO BE LET, a SLATE AND SLAB QUARRY, with PLANT, and good water power. Distance—by good road from a shipping port, 3½ miles; from a railway station, 2½ miles. As a speculation, offering quick returns from a small outlay, this can confidently be recommended. For further particulars, and to view the premises, apply to Mr. Robert Owen Jones, Land Agent, Pwilheli, North Wales.

SITES FOR MANUFACTORIES AT SEAHAM HARBOUR. SITES FOR MANUFACTORIES AT SEAHAM HARBOUR.

TO BE LET, SITES FOR MANUFACTORIES AT SEAHAM

HARBOUR.—Seaham Harbour offers every advantage to Manufacturers
destrous to ESTABLISH WORKS. GLASS, IRON, CEMENT, CHEMICAL and
PATENT FUEL, WORKS have special facilities offered to them,—ground rents
being low, and ceals of the best quality, obtainable from pits adjacent to the
town, at a moderate price.

There is excellent shipping accommodation at the docks, and sand, chalk, &c.,
are brought to the harbour as ballast by the shipping at nominal prices. Railway access to all parts of the United Kingdom.

Hefuse and ballast can be tipped into the sea at no cost, and without liability
to damages for pollution of rivers, and there is an unlimited supply of pure
water from the limestone springs.

Applications for sites to be made to Mr. WILLIAM FORSTER, Londonderry
Offices, Seaham Harbour.

FOR SALE,—THE UNDERMENTIONED ENGINES AND

POR SALE,—THE UNDERMENTIONED ENGINES AND WATER WHEELS:—
ONE 60 in, cylinder ENGINE, 10 ft. stroke in cylinder, and 9 ft. in shaft; with TWO Cornish BOILERS, 10 tons each.
ONE 56 in, cylinder PUMPING ENGINE, 9½ ft. stroke, equal beam; with TWO Cornish BOILERS.
ONE 50 in, cylinder PUMPING ENGINE; with ONE BOILER.
ONE 33 in, cylinder (beam) double-acting ENGINE, with pumping gear attached, 6 ft. stroke; with ONE 10 ton BOILER.
ONE 30 in, cylinder (beam) double-acting ENGINE, with pumping gear attached, 9 ft. stroke with ONE 10 ton BOILER.
ONE 30 in, cylinder (beam) double-acting ENGINE, with pumping gear attached, 9 ft. stroke; with ONE 10 ton BOILER.
ONE 25 in, cylinder (beam) double-acting ENGINE, 6 ft. stroke; with ONE 10 ton BOILER.
The whole of the above engines are in excellent condition, some being nearly new.
WATER WHEELS.

new. WATER WHEEL, 40 ft. diameter, and 8 ft. abreast.

ONE WATER WHEEL, 40 ft. diameter, and 8 ft. abreast.

ONE ditto 50 ft. ditto 3½ ft. abreast.

ONE ditto 50 ft. ditto 3½ ft. abreast.

The above wheels have cast-iron rings, sockets, and axles.

Also, several Corolsh CRUSHERS, of various sizes.

For further information respecting the above machinery, apply to W.

MATHEWS, Engineer, Tavistock.

Tavistock, April 1, 1869.

TOR SALE, cheap, a 16-horse power PORTABLE STEAM ENGINE, new, and with all recent improvements, guaranteed. FIRST-CLASS PORTABLES, 5 to 25-horse power, on advantageous terms, Prize Medals awarded—Hamburg, 1863; Paris, 1867, &c. FOR SALE, EIGHT very superior SECONDHAND PORTABLE STEAM ENGINES, 5 to 10-horse power, by eminent makers, in excellent condition.

BARROWS AND STEWART, ENGINEERS, BANBURY

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Mem. Soc. Arts, Assoc. Soc. Engineers, Compiler of the "Inventors' Almanatt," and the Author of the "Defence of the Present Patent Law,"

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Mempfaging and Companying Matters.

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Inventors advised in relation to Patents and Inventive and Industrial Mat
ters. Printed information sent free by post. Specifications drawn and revised.
Scarches conducted. Abstracts, Cases, and Opinions drawn.
Offices, 68, Fiest-street, E.C., London, corner of and entrance in Whitefriarsstreet.

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No. 2, CROWN CHAMBERS, CROWN COURT,
THREADNEEDLE STREET,
CONDUCTED BY W. T. RICKARD, F.C.S., &c.
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Assays and analyses of every description of mineral and other substances
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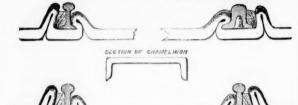
manures, &c.

Gentlemen going abroad for mining purposes instructed in assaying, and the most improved methods of reducing gold, silver, and other metals.

MINING PROPERTIES INSPECTED AND REPORTED ON.

IMPORTANT TO COLLIERY OWNERS, AND THE PROPRIETORS OF IRONSTONE, LEAD, AND COPPER MINES, TRAMWAYS, &

THE PATENT WROUGHT-IRON SLEEPER, Combining a SLEEPER and TWO CHAIRS IN ONE PIECE



The SLEEPER can be made to suit any required section of rail, either double-headed, flat-bottomed, or bridge, and the channel section of iron, of which the sleeper is made, can be manufactured of various breadths, and of weights varying from 6 lbs. to 20 lbs. per yard.

Among the advantages of the WROUGHT-IRON SLEEPER are—
1.—The way can be laid more quickly, and with less manual labour.
2.—The channel section of the iron sleeper beds itself more firmly in the ballast, with the most rigid accuracy of guage.
3.—The continued re-laying of rotten or broken wooden sleepers is no longer

3.—The continued to myles are required.

4.—The iron sleeper is cheaper in the long run than the wooden, which is proved by the fact that on the Continent, where the cost of wood is considerably less than in England, the iron sleepers are universally used.

5.—All the losses or damages arising from the ordinary system, from the way getting out of guage, chairs or sleepers breaking, chair fastenings becoming loose and injuring the horses' feet, are avoided.

For further particulars, apply to the Sole Licensees,—

GEORGE HOPPER AND SON,

BRITANNIA IRONWORKS,

FENCE HOUSES, DURHAM,

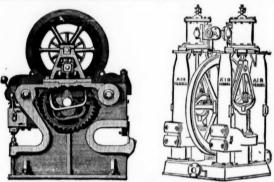
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MANUFACTURERS OF CAST AND WROUGHT-IRON WHEELS, SPOKES,

BOLTS AND NUTS, BAR, ANGLE, AND TEE-IRON, RAILS,

LEON SUPERNS, CAGES, AND COAL TURES. IRON SCREENS, CAGES, AND COAL TUBS.
SMITH WORK AND FORGINGS OF EVERY DESCRIPTION.

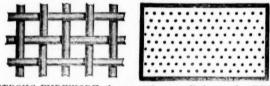


CAMERON, JOHN MAKER OF

STEAM PUMPS, PORTABLE ENGINES, PLATE BENDING ROLLERS, BAR AND ANGLE IRON SHEARS, PUNCHING AND SHEARING MACHINES, PATENTEE OF THE DOUBLE CAM LEVER PUNCHING MACHINE, BAR SHEARS, AND RAIL

PUNCHING MACHINES EGERTON STREET IRON WORKS, HULME, MANCHESTER.

STRONG WIREWORK.



STRONG WIREWORK, the cross wires equally bent; also BEST STAMP GRATES, both of iron and copper, and punched copper plates; DITTO TUBD. All the above promptly supplied at

W. ESCOTT'S MINING MATERIAL DEPOT, TAVISTOCK, DEVON.



PATENTEES.
(ESTABLISHED 1770.)
MANUFACTURERS OF EVERY DESCRIPTION OF IMPROVED

PATENT FLAT AND ROUND WIRE ROPES, From the very best quality of charcoal iron and steel wire.

PATENT FLAT AND ROUND HEMP ROPES. BHIPS' RIGGING, SIGNAL AND FENCING STRAND, LIGHTNING CON-DUCTORS, STEAM PLOUGH ROPES (made from Webster and Horsfall's patent steel wire), HEMP, FLAX, ENGINE YARN, COTTON WASTE, TARPAULING, OIL SHEETS, BRATTICE CLOTHS, &c.

UNIVERSE WORKS, MILLWALL, POPLAR, LONDON. UNIVERSE WORKS, GARRISON STREET, BIRMINGHAM CITY OFFICE No. 5, LEADENHALL STREET, LONDON, E.C.

Swan Rope Works.

ARNOCK BIBBY, AND CO.,
MANUFACTURERS OF FLAT and ROUND HEMP and IRON and STEEL
WIRE ROPES for MINING, RALWAY, and SHIPPING PURPOSES.
WIRE ROPE of FIRST QUALITY WIRE, and the HIGHEST STANDARD
of STRENGTH.
MARTYN DENNIS AND CO., LIVERPOOL,
Sole agents for Cornwall.

WILTON'S MATHEMATICAL INSTRUMENT ESTABLISHMENT REMOVED from St. Day to A. JEFFERY'S, CAMBORNE.

W. H. WILTON begs to thank his friends for their very liberal support for 6 many years, and informs them that he has now declined business in England in favour solely of Mr. A. JEFFERY, MATHEMATICAL INSTRUMENT MAKER, CAMBORNE, whom he considers (having been an assistant to his active for several years) is in every way capable of creditably maintaining the good name universally awarded to Wilton's instruments.

A. JEFFERY

Respectfully begs to inform Mine Managers, Surveyors, Engineers, &c., that having purchased Mr. Witton's business, and the very valuable acquisitions and appliances belonging thereto, he has enlarged his Mathematical instrument Manufactory, and is prepared to supply Theodolltes, Dials, Pocket Dials, Leykels, Traversino and Plais Phothactors, Cases of Drawnis Instructurents, Measuring Chains and Tapes, Assayers' Scales and Weights, Engine Counters, and, in short, every description of Instruments used in Surveying, Measuring, Mapping, &c.

Repairing in all its branches promptly attended to.

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CURE YOURSELF BY THE PATENT SELF-ADJUSTING CURATIVE AND ELECTRIC BELT.—Sufferers from spermatorrhea, nervous debility, painful dreams, &c., can now cure themselves by the only guaranteed remedy in Europe, protected by Her Majesty's great seal.

Free for one stamp by H. JAMES, issq., Percy House, Bedford-square, London. N. B.—MEDICINE AND FEES SUFFRISEDED. Reference to the leading Physicians of the day, A TEST GRATIS. SEND FOR DETAILS.

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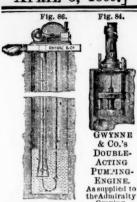
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Fig. 139.





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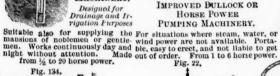
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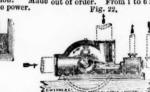
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Fig. 134.

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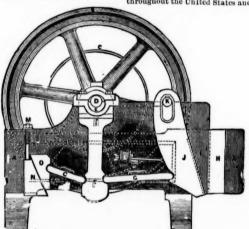
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BLAKE v. ARCHER, NOVEMBER 12, 1867.

His Honour the Vice-Chancellor Wood having found a VERDICT in FAVOUR of the PLAINTIFFS in the above Cause, establishing the VALIDITY of BLAKE'S PATENT, and made a DECREE for an INJUNCTION to RESTRAIN the DEFENDANTS, Messrs. THOMAS ARCHER and Son, of Dunston Engine-Works, near Gateshead-on-Tyne, from INFRINGING such PATENT, and

ordering them to pay to the Plaintiffs the costs of the Suit.

ALL PERSONS are hereby CAUTIONED against MANUFACTURING, SELLING, or USING any STONE BREAKERS similar to BLAKE's, which have not been manufactured by the Plaintiffs. Application will forthwith be made to the Court of Chancery for INJUNCTIONS AGAINST ALL PERSONS who may be found INFRINGING ELAKE'S PATENT after this notice.

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ogn Der	went Mines, s-l. Durha:	m 300	0	0				177	.0	0	2 10	0July	1868
1094 Dox	on Gt. Consols, c. Tavis	tock† 1	0	0	310	300 310		1128		0		0 Mar.	
ATA DOV	g Dong, t, Gulvalt	49		6				2				0Mar.	
696 Din	g Dong, t, Gurvary	199			F00	24 25		-					
358 Dol	coath, c, t, Camborne	120		6	500	475 500						0 Feb.	
GLAA Eas	t Caradon, c. St. Cleert	2		6	81/4	8 81/4		14	11	6	0 2	0July	1867
noo Ens	t Darren, L. Cardikansu	110 02	0	0		85				0	2 0	0 Mar.	1869
and Man	t Pool, t, c, Pool, Illoga	n 24	5	0		00				0	5 0	0 Mar.	1860
128 Eas	L Pool, L, C, Tool, Thogas	Iron 3		0	01/								
1906 Eas	t Wheal Lovell, t, Wene	Hou. a	9	0	91/2	9 934						0Jan.	
2800 Fox	dale, l, Isle of Man*	25	0	0				72	10	0	0 10		1869
roon Fra	nk Mills, I, Christow	3	18	6	4	3% 3%				6	0 4	0 Feb.	1869
pore Car	vton, c, Tavistock	3	10	6	-	0/8 0/8		0				0 Jan.	
3950 Gav	Toloof Man	* 4	0	0	20	10 1016			- 1	0	0 10	o Mar	1960
15000 Gre	at Laxey, l, Isle of Man					19 191/2		10	D	0	0 10	0. Mar.	1000
3000 Gre	at Northern Manganese	* 5						-	-		5 p.	ctFeb.	1869
song Gre	at Wheal Vor. t. c. Hels	tony., 40	0	0	161/2	17 1716		14	1	0	0 5	0 Mar.	1869
1004 Her	odsfoot, I, near Liskear	dt 8	10	0	46	44 46		49	10	0	1 10	0 Feb.	1869
1024 Her	odstoot, their mat	10		1	90	44 40	••	1000			4 0	0Jan.	1869
165 Lev	ant, c, t, St. Just	10						1099		0			
400 List	burne, I, Cardiganshire	18		0				515		0		0 Mar.	
2000 Mac	s-y-Safn, I, Flint*	20						4	0	0		0Oct.	
0000 Mai	ke Valley, c, Caradon	4	10	6	8%	834 934		4	19	0	0 5	oJan.	1869
9000 Min	era Boundary, l, Wrex	iam * 1	0	0	-/8	074 074				0	0 9	0. Mar.	1866
3000 MID	era Boundary, t, Wrow	10m # 05						040	10	0		o Ech	1869
1800 Min	era Mining Co. l, Wrexi	iam * 25		0						6	5 0	0. Feb.	
20000 Min	ing Co. of Ireland, e, l,	cl 7	0	0	1134	111/4 113	8		-		9 p.c	et July	1868
40000 Mw	yndy Iron Ore*t	3	5	0				0	11	6	0 3	0 Feb.	1869
poon Nav	th Levant, t, c, St. Just	10	12	0	12	111/2 12			5	0	0 8	0Mar.	1869
2000 101	Mines a Anglesov	50	-0	0		11/2 1		100	10	0	9 10	0Aug.	1868
200 Par	ys Mines, c, Anglesey*.		0						10	0	2 10	U Zeug.	1869
5000 Pen	halls, t, St. Agnes	3		0		5% 6%		0	2	6	0 2	6Jan.	
19800 Pri	ice of water, t, Caistoc	K U	12	6	11/2	218. 238		0	. 8	6	0 1	0Nov.	1868
1100 Pro	vidence, t, Uny Lelantt	10	6	7	42	40 41		88	2	6	1 10	0 Mar.	1869
1120 P10	th Caradon, c, St. Cleer	t 1	5			**		612	10	0	5 0	0 Mar.	1869
512 Sou	(In Caradon, c, St. Creek						••	012	14	0			1869
6000 Sou	th Darren, I, Cardigan	8		6				0	14	0	0 1	6 Feb.	
937 Sou	th Wh. Crofty, c, Illoga	n 24	10	10.	131/2	13 131/6						0Feb.	1869
496 No.	Wh. Frances, c, Illog. 13	18	18	9	17			374	13	6	1 0	O Mar.	1868
509 Sun	mer Hill, I, Mold	3		6	-			2	5	6	0 5	0 Feb.	1868
208 200	croft, c, t, Pool, Illogan	t 9		0	10	10 101/						0Mar.	1869
6000 Tin	croit, c, t, roos, mogan	10000 3			19	19 191/2							1869
2000 Tru	mpet Cons., /, Helston	11		0	22	21 22		8	()	0	0 10	0Jan.	1000
12000 Var	, l, Llanidloes*	4	5	0	23	23 25		-	-		_		
2000 W	Chiverton, l, Perranzat	uloet 10		0	521/2	51 52		33	7	6	9 0	0Feb.	1869
3000 W.	t Godolphin, t, c, Breag	0 0		0		01 02		0	0	0	0 9	0 Dec.	1867
2000 Mes	t Godorphin, t, c, break	0		0					~	0	0 0	o Fob	1869
400 W.	Wheal Seton, c, Cambo	rnet 47		0		2021/2207	/2	622	0	0	6 0	0 Feb.	
519 Wh	eal Basset, c. Illogant .	5		6	75	70 75		632	10	0	1 0	0June	1868
1004 Wh	eal Friendship, c, Tavis	tock. 20	0	0				300	10	0	0 10	0Nov.	1866
1024 WIII	eal Jane, s-l, Kea	10	15	0	40	421/6 45		23	0	0	2 0	0 Mar.	1869
512 Wh	cal Jaile, 8-t, Rea		4	0	40	81/ 81/		3	19	0	0 0	0Nov.	1868
4295 Wh	eal Kitty, t, St. Agnes .	5	4	6	51/4	51/4 51/2		0	10	0	0 2	O. Mor.	1869
1024 Wh	eal Mary Ann, l, Monhe	nioti 8	0	0	19	16 18			15	U	0 17	6Mar.	
80 Wh	eal Owles, t, St. Just! .	70	0	0	360			403	3	05	2 10	0 Feb.	1869
900 111	eal Seton, t, c, Camborn		10	0	M M	70 75			15	0	2 0	0 Feb.	1868
896 WI	thought Load Cithorn	* 0		0				1	0	0	0 10	0 Dec.	1867
3000 Wh	itewell Lead, Clitheroe	0	10	0					0	0	10	0 Mar	
17000 Wic	klow, e, i, Wicklow	2	10	0	11%			49	6	U	1 0	0Mar.	1869
	FOR	EIGN	D	IV	DEN	D M	IN	ES.					
	POR												
	III. I Contait	9	0	0	_	11/ 9		0		0	0 9	A Mar	1920

25000 Alamillos, I, Spain*t 2 0 0 11/2 2 0 6 6 0 2 0 3	lar. 1869
20000 Australian, c, South Australiat 7 7 6 0 1 6 0 0 6	
15000 Cape Copper Mining*† 7 0 0 1234 13 3 17 6 0 15 0 1	ov. 1868
30000 CentralAmerican Association*† 1 10 0	1000
76162 Don Pedro North del Rey* 1 0 14 0 4% 4% 41/2 1 0 3 0 6 0 M	ar. 1869
70000 English and Australian, ct 2 10 0	
25000 Fortuna, I, Spain*t 2 0 0 234 1 14 10. 0 3 0	
20000 Gen.MiningAssoc., NovaScotlat 20 0 0 23 10 0 0 15 0	
10000 Gonnesa, t. Sardinia* 5 0 0 10 per cent	
68000 Kapunda Mining Co., Austratt 1 0 0 0 1 10. 0 0 6N	
15000 Linares, t, Spain*† 8 0 0 3½ 2½ 3 11 18 4 0 3 4 h 50000 Panulcillo, c, Chili*† 3 0 0 1½ ½ 1 10 per cent	
50000 Panulcillo, c, Chili* 3 0 0 1/2 1/2 1 10 per cent	Yearly.
6000 Peel River Land and Mineral* 100 0 0 11 13 5 6 2 0 19 7 Land Pentgipand 8-1. Francet 20 0 0 12 11 13 5 6 2 0 19 7 L	1000
13500 Vancouver Coal Mining*†‡ 6 0 0 8 734 84 2 2 6 0 12 0 N	
40000 West Canada Mining Co 1 00 0 19 6. 0 2 6 M	1000

NON-DIVIDEND FOREIGN MINES.

Thares. Mines.	Paid. Last Pr. Bus. done. Last Call'
FORM Angle Argentine, S. Argentine Republic	1 0 0
nonn Angle Brazilian. del	0 10 0 78 24 78 NOV. 1866 [
igeno Anglo-Italian, gtt	0 10 0 78 78Jan. 1868 1
poppo Australian United. d	1 0 0
9464 Burra Burra, c. South Australia	5 U U
20000 Canula a Movico#t	1 17 6 — May 1868 [
none Chentales a s. Nicaragua*!	5 0 0 1/21/2 1/2 Mar. 1868
19000 Cohre Compa Company, C. Choall	40 10 0 —Jan. 1868
10000 Conjano Mining Company, Chillit	10 10 0
10000 Contano Smolting Chill*	10 0 0 April 1866
200 Copper Miners' Co. of South Australia* [150 £100 pd.	Nov. 1866 [
room El Chico Silver Mining and Reduction Company"	5 0 0 — Nov. 1866 [
10000 Fortune Conner Mining Co. of Western Australia	z o o Fully pu. [
soon Fronting and Bolivia, q. New Granada*†	1 17 6 %198. 218 May 1868
soon General Brazilian	0 10 0 %158. 168 Feb. 1869
10000 Great Northern, c. South Australia;	1 11 0 sept. 1862
oppo Javali, q. Nicaragua	2 00 1869
7997 Lusitanian (Portugal) 1	2 15 U Dec. 1806
33640 Marianita, q. s. New Granada	1 0 0 Feb. 1868
2500 Norbudda Coal and Iron, India*!	0 0 0 Dec. 1001
1800 New Ouebrada, c. Venezuela*†	4 40
20000 Pestarena United, q. Italy * * ********************************	2 17 6 1 174
10178 Rhenish Consolidated, I [6000 £5 pd., 4178 £2 10s. pd.]	May 1866
20000 Rossa Grande, g. Brazil*f	0 14 0 1/2 1/8 1/8 June 1867
5000 San Pedro del Monte, s, Mexico*	4 00 sept. 1800
10000 San Roque, I. Spain	5 0 0 Fully pu.
50000 Sao Vicente, Brazil**	0 4 0 ¼ 4s. 6sOct. 1868
00000 Taquaril. q. Brazil*	0 76 98118. 108001. 1000
3174 United Mexican, s, Mexicoft*	28 5 2 1% 1% 2 May 1808
30000 Val Antigoria, g, Italy*	1 26
6000 Val Sassam, s, c, l, Italy* +	8 0 0 Aug. 1868
5000 Victor Emanuel, c, Italy	1 00 Fully pu.
20000 Washoe, g. Nevadat	6 00 Fully pu.
80000 Worthing, c. South Australia*t	1 00 % Fully pa.
75000 Yorke Peninsula, South Australia	1 0 0 Fully pa.
15000 Yudanamutana, c, South Australia* 1	3 0 0 1% 1½ 1% Fully pd.

NON-DIVIDEND MINES.

	NON-DIVIDEND M							
Share	Mines.						one. Last	
1000	Carn Brea, c, t, Illogan;				22		June	
2000	Chiverton, l, Perranzabuloe	11		0	4		8 Nov.	
2000	Chiverton Moor, l, Perranzabuloe	7	0	6	81/2	3% 3	8 Feb.	1869
0000	Universion moor, t, retrangability	40	17	6	_		Oct.	1868
2880	Clifford Amalgamated, c, Gwennap;	2	10	0	11/8	18s. 2	sJan.	1868
12800	Drake Walls, t, Calstock:			0			Nov.	1868
512	East Basset, c, Redrutht	4	6	0	-	1/4 3/8	Feb.	1869
6000	East Carn Brea, c, Redruth!	4		0	61/8	61/8 6	8 Feb.	1869
6000	East Grenville, c, Camborne			6		**	Oct.	1868
4000	East Wheal Russell, c, Tavistockt			3			Feb.	
6144	Gonamena, c, St. Cleer			0		2	Feb.	1867
5000	Great North Downs, c, Redruth			6	-	21/4 21	4 Oct.	1868
4800	Great Retallack s.l. D. Perranzabuloc			6	7/4	. 20s. 2	sDec.	1868
5143	Great South Tolgus, c, Redruth			4			Mar.	1868
1798	Great Wheal Fortune, t, Breage			0			Dec.	1868
6000	Hingston Down, c, Calstockt			0		65 70	Jan.	1869
400	New Wheal Seton, c, Camborne			10				1869
3457	North Downs, c, Redruth			0		::	Jan.	
695	North Roskear, c. Camborne			10	76	178. 1	sFeb.	1869
5936	North Treskerby, c. St. Agnes			0	-		Jan.	1869
1024	Rose and Chiverton United, I, Newlyn			6	134	248. 20	8Feb.	1869
6138	South Condurrow, t, c, Camborne			0		% 1	**	
1000	South Merllyn, l, Flint					20 21	Nov.	1867
940	St. Ives Consols. t, St. Ivest	10	I D	0	81/4		April	
920	Stray Park, c, t, Cambornet			8		194 9		1868
6000	West Basset, c, Illogantt	2				. 45	Mar.	
1094	West Caradon, c. St. Cleer 12			0	52		Jan.	
10800	West Drake Walls, c. Calstock			6			June	
9582	West Great Work, t, Breage			0			Mar.	
		0	10	0	801/	51 53		
519	West St. Ives, t, c, St. Ives West Wheal Frances, t, Illogan	106	10		0478	** 25 00	Nov.	1869
8000	West Wheat Kitty, t, St. Agnes	3	10	0	11/	134 13	Mar.	1889
6000	Wheal Agar, c. Illogan	7	18		1578	15 171	Feb.	1869
512	Wheal Buller, c, Redruth !	00	3	2	15 20		Jan.	1867
811	Wheal Emily Henrietta, c, Illogan	20	10		917	51s. 55	sDec.	1868
5724	Wheal Grenville, c, Cambornet	10	17		778	*******	Mar.	1869

NON-DIVIDEND MINES,

NON-DIVIDEND MINES. Shares. Mines. Paid. Last Pr.	
4000 Ballacorkish, I. of Man, l, c* 4 0 0 —	158. 178.
1248 Boscaswell, t, c, St. Just 7 6 0 —	1% 2%
5000 Bottle Hill, t, Plympton 1 14 6— 12000 Bradda, c, l, Isle of Man* 1 10 0— 5000 Bryn Gwlog, l, Flint 0 18 0—	••
1200 Bryn Gwyn, l, Mold*: 9 0 0 — 12000 Brynpostig, Montgomery, l* 1 0 0 —	. 134 2
6000 Products Cong. o 7 Condia. 2 0 0	::
30000 Caldbeck Fells, l, Cumberid. 1 17 6	::
11000 Cape Cornwall, t, c* [8000 £210s. pd., 3000 25]	s. pd.]
	::
20000 Carysfort [3200 £2½ pd., 16800 £1 ½ pd.] 24000 Central Snailbeach l*	
3000 Chiverton Valley, I, Perranz. 2 0 0— 2048 Colquite & Callington Un., c. 1 3 0 234. 256 Condurrow, c, t, Cambornet 76 10 0—	21/6 23/4
983 Copper Hill, c. Redrutht 12 10 0 —	
1000 Cornwall Hematite* 5 0 0 7½ 1055 Craddock Moor, c, St. Cleer‡ 14 6 0 — 6000 Cuddra, t, St. Austell 5 10 0 —	
4000 Deven & Cornwall United 5 18 0.	See .
740 Eaglebrook, I, Talybout* 19 15 0 —	:
4000 East Chiverton, l, Perranz. 3 6 3	:
4096 E. New Wh. Lovell, t, Wend. 0 5 0 38	
5000 East Snaefell, I, I. of Man* 3 0 0 —	. ½1
2000 East Trumpet, c, t	
6000 East Wheal Reeth, Lelant	
6000 Gen. Min. Co. for Ireland, c 5 10 0 %. 40000 Glasgow Caradon, c* [30,000 £1 p., 10,000 15s.	p.]
10000 Glan Alun, l, Mold*	•
2866 Great Caradon, c, St. Ive 4 5 9 — .	1% 3%
15000 Great Rhosesmor, 1	:
4096 Great Royalton, t	11/2 2
119 Great Work, t, Germoe 100 0 0	•
10240 Gunnislake (Clitters'), t, c 4 19 0 — 6000 Gwydyr Park, l, Llanrwst 1 12 0 — . 250 Hallowford, s-l, Cardigan 5 0 0 — .	
6400 Harwood, t, Durham* 0 76	•
1019 Leeds and St. Aubyn, t, c 19 13 4 — . 1000 Llywernog, l, Cardigaushire 13 0 0 — .	71/2.
6000 Maudlin, c, Lostwithiel	
6000 Mid-Wales, l,*	
640 Mount Pleasant, <i>l</i> , Mold 4 0 0 —	. 11 13
6000 New Clifford, c., Gwennap*. 3 5 0 — 6250 N. Crow Hill, l, St. Stephen. 3 9 0 —	
1021 Nangles, t. c., Aca. 1021 Nangles, t. c., Aca. 1020 New Chiverton, I, Perranz	
3425 New Treleigh	•
4096 New Wh. Lovell, t, Wendron 1 19 6. 234. 4000 N. Wh. Prosper, t, St. Hilary 1 10 0 — . 2000 N. Wh. Towan, c, t, Wendron 1 10 0 — .	23% 23%
5000 No. Dolcoath, c, Camborne 4 3 0 — 1861 No. Grambler, c, Redruth 9 3 9 —	:
6000 North Jane, t, s-l, Kenwyn 3 6 0	16 %
1024 No.Retallack,c,Perrazabuloe 2 0 0 —	
3000 N. Wh. Chiverton, I, Perran. 5 0 0 — 5510 N. Wh. Crofty, c, Illogant 3 11 3 118 12288 Okel Tor, c, Calstock 2 7 4 —	1 1%
8000 Old Gunnislake, c, Calstock 3 9 6 — 6400 Par Consols, c, St. Blazey†1 2 14 6 —	
5000 Pendeen Consols, c, St. Just. 7 11 0	•
2177 Penhale Wh. Vor, t, c, Breage 6 12 6 — 1772 Polberro, t, St. Agnes 15 0 0 — 12800 Princess of Wales, c, t 0 7 0 —	
6000 Prosper U., t, c, St. Hilary 9 14 0	
6000 Roaring Water, c* 2 15 0	
10000 Royalton, t, St. Columb 1 1 0	1% 1%
20500 Snaefell, f, Isle of Man* 1 0 0 — 512 South Basset, c, Gwennap 30 10 0 — 5000 South Carn Brea, c, t 0 5 0 —	
3000 So. Chiverton, s, l, Perranz. 6 2 6 — 3000 So. Fowey, c, Tywardreath 1 0 0 — 3000 So. Co. Chiverton, St. Hillery 6 2 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, St. Hillery 7 6 6 — 3000 So. Chiverton, S	
5000 So. Gt. Work, t, c, St. Hilary 0 2 6. —	1 114
400 So. Wh. Seton, c, Camborne 87 3 0 — 242 Spearne Moor, t, St. Just 6 2 0 —	/*
673 St. Ives Wh. Alien, t, St. Ives 18 18 7 — 8771 St. Just Amalg., t, * [6000 £3 10s. pd.,2771 £2 200 Steeple Aston Iron Ore Co 10 0 0 —	5s. pd.
7000 Stiperstones, I, Salop* 6 0 0 — 6000 Tamar Valley, s-I, Beeralston 0 18 0 —	
3500 Tin Hill, t, St. Austell 1 17 0 — 6000 Tin Valley, St. Neot 1 0 0 — 548 Trelyon Consols, t, St. Ives 16 10 0 5	11%
501 Tresavean and Trethurrup 16 11 0 4	
4096 Trewetha, s-f, Menheniot 10 19 6.— 1943 Treworlis f, Wendron 11 15 4.— 4200 Vigra and Clogau, c, Dolg. *1, 5 10 0.— 258 West Damsel, c, Gwennap 38 10 0.— 12000 W. Maria & Fortes, c, Lam. 3 13 0.—	
12000 W. Maria & Fortes., c, Lam. 3 13 0 — 12800 West Prince of Wales, c 0 11 0 4s.	38. 58.
266 West Damsel, c, Gwennap. 38 10 0. — 19000 W. Maria & Fortes, c, Lam. 3 13 0. — 12800 West Prince of Wales, c 0 11 0 4s. 1000 West Rose Down, c, Linking. 22 10 0. —	35 2
741 Wheal Basset and Grylls, t 7 18 6. 714.	7.8
9900 H House Created and Aller	% 1/2
1560 Wheai Ida, s-l, St. Ive 1 8 0	
896 Wh. Margaret, t, Uny Le.‡ 13 17 6 10 728 Wheal Margery, St. Ives, t, c 27 4 0 —	
4663 Wheal Sparnon, c	
IRON AND COAL COMPANIES.	
	16 - pm.

1040 Wheal Trelawny, s-l, Liskeardf 10 17 0 .. 7 ... Mar. 1869 | 4096 Wheal Uny, t, c, Redruth. 10 14 6 .. 3% .. 3% 3% .. Oct. 1868 | b, blende; cl, coal; c, copper; g, gold; l, lead; s, silver; sl, slate; sl, silver-lead; t, tin; s, zinc.

. Companies marked thus * have been incorporated with Limited Liability; those marked † have been admitted on the Stock Exchange, those marked thus † have paid Dividends.

London : Printed by Richard Middleton and published by Henry English (the proprietors), at their office, 26, Fleet Street, E.C., where all communications are requested t be addressed.— April 3, 1869.